

SEARCH REQUEST FORM

Requestor's Name: _____ Serial Number: _____
Date: _____ Phone: _____ Art Unit: _____

Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors, keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).

STAFF USE ONLY

Date completed: <u>2/21</u>	Search Site	Vendors
Searcher: <u>P. Schreiber 308-4292</u>	____ STIC	____ IG
Terminal time: <u>7</u>	<u>✓</u> CM-1 <u>6003</u>	____ STN
Elapsed time: <u>13</u>	____ Pre-S	____ Dialog
CPU time: _____	Type of Search	____ APS
Total time: _____	____ N.A. Sequence	____ Geninfo
Number of Searches: _____	<u>5</u> A.A. Sequence	____ SDC
Number of Databases: _____	____ Structure	____ DARC/Questel
	____ Bibliographic	<u>✓</u> Other <u>Compton</u>

This Page Blank (uspto)

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 20, 2003, 08:09:37 : Search time 3.25768 Seconds
(without alignments)
478.688 Million cell updates/sec

Title: US-09-819-136-2_COPY_299_351

Perfect score: 314
Sequence: 1 CLPDVQACTGPTSPHLVLMH.....RGCDGARGFETACQDAC 53

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

1: Issued Patents_AA:*
2: /cgn2_6/ptodata/1/1aa/5A_COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/6A_COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/6B_COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/PCtus_COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/Backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	101.5	32.3	70	1	US-07-791-213D-5 Sequence 5, Appli
2	101.5	32.3	70	1	US-08-293-150A-5 Sequence 5, Appli
3	101.5	32.3	91	1	US-07-791-213D-89 Sequence 89, Appli
4	101.5	32.3	91	1	US-07-972-387-2 Sequence 2, Appli
5	101.5	32.3	91	1	US-08-431-412-2 Sequence 2, Appli
6	101.5	32.3	91	1	US-08-057-971-2 Sequence 2, Appli
7	101.5	32.3	91	1	US-08-293-150A-89 Sequence 89, Appli
8	100.5	32.0	68	1	US-07-972-387-37 Sequence 37, Appli
9	100.5	32.0	68	1	US-07-972-387-40 Sequence 37, Appli
10	100.5	32.0	68	1	US-08-431-412-37 Sequence 37, Appli
11	100.5	32.0	68	1	US-08-431-412-40 Sequence 40, Appli
12	100.5	32.0	68	1	US-08-057-971-37 Sequence 37, Appli
13	100.5	32.0	68	1	US-08-057-971-40 Sequence 40, Appli
14	100.5	32.0	89	1	US-07-972-387-10 Sequence 10, Appli
15	100.5	32.0	89	1	US-08-431-412-10 Sequence 10, Appli
16	100.5	32.0	89	1	US-08-057-971-10 Sequence 10, Appli
17	100.5	32.0	101	1	US-07-972-387-22 Sequence 22, Appli
18	100.5	32.0	101	1	US-07-972-387-28 Sequence 28, Appli
19	100.5	32.0	101	1	US-08-431-412-22 Sequence 22, Appli
20	100.5	32.0	101	1	US-08-431-412-28 Sequence 28, Appli
21	100.5	32.0	101	1	US-08-057-971-22 Sequence 22, Appli
22	100.5	32.0	101	1	US-08-057-971-28 Sequence 28, Appli
23	99.5	31.7	89	1	US-07-972-387-8 Sequence 8, Appli
24	99.5	31.7	89	1	US-08-431-412-8 Sequence 8, Appli
25	99.5	31.7	89	1	US-08-057-971-8 Sequence 8, Appli
26	99	31.5	61	2	US-08-829-876-158 Sequence 158, App
27	99	31.5	61	4	US-09-234-874A-158 Sequence 158, App

28	98.5	31.4	58	3	US-08-676-124-130 Sequence 130, App
29	98.5	31.4	58	3	US-09-414-878-130 Sequence 130, App
30	98.5	31.4	58	3	US-09-240-136-130 Sequence 130, App
31	98.5	31.4	58	4	US-09-638-770A-130 Sequence 130, App
32	98.5	31.4	89	1	US-07-972-387-16 Sequence 16, Appli
33	98.5	31.4	89	1	US-08-431-412-16 Sequence 16, Appli
34	98.5	31.4	89	1	US-08-057-971-16 Sequence 16, Appli
35	98	31.2	61	2	US-08-829-876-141 Sequence 141, App
36	98	31.2	61	2	US-08-829-876-164 Sequence 164, App
37	98	31.2	61	4	US-09-234-874A-141 Sequence 141, App
38	98	31.2	61	4	US-09-234-874A-164 Sequence 164, App
39	97	30.9	57	2	US-08-829-876-128 Sequence 128, App
40	97	30.9	57	4	US-09-234-874A-128 Sequence 128, App
41	97	30.9	61	2	US-08-829-876-166 Sequence 166, App
42	97	30.9	61	2	US-08-829-876-194 Sequence 194, App
43	97	30.9	61	4	US-09-234-874A-166 Sequence 166, App
44	97	30.9	61	4	US-09-234-874A-194 Sequence 194, App
45	96.5	30.7	68	1	US-07-972-387-35 Sequence 35, Appli

ALIGNMENTS

RESULT 1
US-07-791-213D-5
Sequence 5, Application US/07791213D
Patent No. 5409895
GENERAL INFORMATION:
APPLICANT: MORISHITA, Hideaki
APPLICANT: KANAMORI, Toshinori
APPLICANT: NOBUHARA, Masahiro
TITLE OF INVENTION: POLYPEPTIDE, DNA FRAGMENT ENCODING THE
TITLE OF INVENTION: SAME AND PROCESS FOR PRODUCING THE SAME, AND ENZYME
TITLE OF INVENTION: INHIBITION PROCESS, DRUG COMPOSITION AND METHODS OF
TITLE OF INVENTION: TREATING USING THE SAME
NUMBER OF SEQUENCES: 108
CORRESPONDENCE ADDRESS:
ADDRESSEE: Burns, Doane, Swecker & Mathis
STREET: P. O. Box 1404
CITY: Alexandria
STATE: Virginia
COUNTRY: United States
ZIP: 22113-1404
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/791,213D
FILING DATE: 13-NOV-1991
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-306745
FILING DATE: 13-NOV-1990
ATTORNEY/AGENT INFORMATION:
NAME: Neuth, Donna M
REGISTRATION NUMBER: 36,607
REFERENCE/DOCKET NUMBER: 029650-032
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 836-6620
TELEFAX: (703) 836-2021
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 70 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-07-791-213D-5
Query Match 32.3%, Score 101.5, DB 1, Length 70;
Best Local Similarity 35.2%, Pred. No. 2.2e-05;
Matches 19, Conservative 8, Mismatches 22, Indels 5, Gaps 1;

OY 5 VOACT-----GPTSPHLVLMHYDPORGCMTEFPARGCDGARGFETYEACQAC 53
| | | | | : | | : | | : | | | | | : | | : | | : | | : | | : |
Db 2 VAACNLPIVRGPCRAFIQLMAFDVAKGKCVLFPGCGCGNGNKFSEKRECYC 55

RESULT 2

US-08-293-150A-5
; Sequence 5, Application US/08293150A
; Patent No. 5792629

GENERAL INFORMATION:

APPLICANT: MORISHITA, Hideaki
APPLICANT: KANAMORI, Toshinori
APPLICANT: NOBUHARA, Masahiro
TITLE OF INVENTION: POLYPEPTIDE, DNA FRAGMENT ENCODING THE
TITLE OF INVENTION: SAME AND PROCESS FOR PRODUCING THE SAME, AND ENZYME
TITLE OF INVENTION: INHIBITION PROCESS, DRUG COMPOSITION AND METHODS OF
TITLE OF INVENTION: TREATING USING THE SAME
NUMBER OF SEQUENCES: 110
CORRESPONDENCE ADDRESSES:
ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
STREET: P.O. Box 1404
CITY: Alexandria
STATE: Virginia
COUNTRY: United States
ZIP: 22313-1404

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/293,150A
FILING DATE: 19-AUG-1994
CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/791,213
FILING DATE: 13-NOV-1990
PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 2-306745
FILING DATE: 13-NOV-1990

ATTORNEY/AGENT INFORMATION:

NAME: Meuth, Donna M.
REGISTRATION NUMBER: 36,607
REFERENCE/DOCKET NUMBER: 029650-049
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 836-6620
TELEFAX: (703) 836-2021

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:
LENGTH: 70 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-293-150A-5

Query Match 32.3%; Score 101.5; DB 1; Length 70;
Best Local Similarity 35.2%; Pred. No. 2,2e-05;
Matches 19; Conservative 8; Mismatches 22; Indels 5; Gaps 1;

OY 5 VOACT-----GPTSPHLVLMHYDPORGCMTEFPARGCDGARGFETYEACQAC 53
| | | | | : | | : | | : | | | | | : | | : | | : | | : | | : |
Db 2 VAACNLPIVRGPCRAFIQLMAFDVAKGKCVLFPGCGCGNGNKFSEKRECYC 55

RESULT 3

US-07-791-213D-89
; Sequence 89, Application US/07791213D
; Patent No. 5409895

GENERAL INFORMATION:

APPLICANT: MORISHITA, Hideaki
APPLICANT: KANAMORI, Toshinori
APPLICANT: NOBUHARA, Masahiro

TITLE OF INVENTION: POLYPEPTIDE, DNA FRAGMENT ENCODING THE
TITLE OF INVENTION: SAME AND PROCESS FOR PRODUCING THE SAME, AND ENZYME
TITLE OF INVENTION: INHIBITION PROCESS, DRUG COMPOSITION AND METHODS OF
TITLE OF INVENTION: TREATING USING THE SAME
NUMBER OF SEQUENCES: 108
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Burns, Doane, Swecker & Mathis
STREET: P.O. Box 1404
CITY: Alexandria
STATE: Virginia
COUNTRY: United States
ZIP: 22313-1404

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/791,213D
FILING DATE: 13-NOV-1991
CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 2-306745
FILING DATE: 13-NOV-1990
ATTORNEY/AGENT INFORMATION:

NAME: Meuth, Donna M
REGISTRATION NUMBER: 36,607
REFERENCE/DOCKET NUMBER: 029650-032
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 836-6620
TELEFAX: (703) 836-2021

INFORMATION FOR SEQ ID NO: 89:

SEQUENCE CHARACTERISTICS:
LENGTH: 91 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-791-213D-89

Query Match 32.3%; Score 101.5; DB 1; Length 91;
Best Local Similarity 35.2%; Pred. No. 2,9e-05;
Matches 19; Conservative 8; Mismatches 22; Indels 5; Gaps 1;

OY 5 VOACT-----GPTSPHLVLMHYDPORGCMTEFPARGCDGARGFETYEACQAC 53
| | | | | : | | : | | : | | | | | : | | : | | : | | : | | : |
Db 23 VAACNLPIVRGPCRAFIQLMAFDVAKGKCVLFPGCGCGNGNKFSEKRECYC 76

RESULT 4

US-07-972-387-2
; Sequence 2, Application US/07972387
; Patent No. 5451659

GENERAL INFORMATION:

APPLICANT: Morishita, Hideaki
APPLICANT: Kanamori, Toshinori
APPLICANT: No. 5451659uhara, Masahiro
TITLE OF INVENTION: Polypeptide, DNA Fragment Encoding the
TITLE OF INVENTION: Same, Drug Composition Containing the Same and Process for
TITLE OF INVENTION: Producing the Same
NUMBER OF SEQUENCES: 76
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Birch, Stewart, Kolasch & Birch
STREET: 301 N. Washington St.
CITY: Falls Church
STATE: Virginia
COUNTRY: USA
ZIP: 22046-0747

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/972,387
FILING DATE: 19921105
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: MURPHY JR., Gerald M.
REGISTRATION NUMBER: 28,977
REFERENCE/DOCKET NUMBER: 1110-124P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-241-1300
TELEFAX: 703-241-2848
TELEX: 248345
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 91 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-972-387-2

Query Match 32.3%; Score 101.5; DB 1; Length 91;
Best Local Similarity 35.2%; Pred. No. 2.9e-05;
Matches 19; Conservative 8; Mismatches 22; Indels 5; Gaps 1;

QY 5 VOACT-----GPTSPHLVLMHYDPORGCMTPPARGCDGAARGFTYEACQAC 53
DB 23 VAACNLPIYRGPCRAFIQLMADFAYKGCVLFPYGGCGGNGKMFSEKRECYC 76

RESULT 5
US-08-431-412-2
Sequence 2, Application US/08431412
Patent No. 5589360
GENERAL INFORMATION:
APPLICANT: Morishita, Hideaki
APPLICANT: Kanamori, Toshihiro
APPLICANT: No. 5589360uhara, Masahiro
TITLE OF INVENTION: Polypeptide, DNA Fragment Encoding the
TITLE OF INVENTION: Same, Drug Composition Containing the Same and Process for
TITLE OF INVENTION: Producing the Same
NUMBER OF SEQUENCES: 76
CORRESPONDENCE ADDRESS:
ADDRESSEE: Birch, Stewart, Kolasch & Birch
STREET: 301 N. Washington St.
CITY: Falls Church
STATE: Virginia
COUNTRY: USA
ZIP: 22046-0747
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/431,412
FILING DATE: 28-APR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/972,387
FILING DATE: 05-NOV-1992
ATTORNEY/AGENT INFORMATION:
NAME: MURPHY JR., Gerald M.
REGISTRATION NUMBER: 28,977
REFERENCE/DOCKET NUMBER: 1110-124P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-241-1300
TELEFAX: 703-241-2848
TELEX: 248345
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 91 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

US-08-431-412-2

Query Match 32.3%; Score 101.5; DB 1; Length 91;
Best Local Similarity 35.2%; Pred. No. 2.9e-05;
Matches 19; Conservative 8; Mismatches 22; Indels 5; Gaps 1;

QY 5 VOACT-----GPTSPHLVLMHYDPORGCMTPPARGCDGAARGFTYEACQAC 53
DB 23 VAACNLPIYRGPCRAFIQLMADFAYKGCVLFPYGGCGGNGKMFSEKRECYC 76

RESULT 6
US-08-057-971-2
Sequence 2, Application US/08057971
Patent No. 5679770
GENERAL INFORMATION:
APPLICANT: Morishita, Hideaki
APPLICANT: Kanamori, Toshihiro
APPLICANT: No. 5679770uhara, Masahiro
TITLE OF INVENTION: Polypeptide, DNA Fragment Encoding the
TITLE OF INVENTION: Same, Drug Composition Containing the Same and Process for
TITLE OF INVENTION: Producing the Same
NUMBER OF SEQUENCES: 81
CORRESPONDENCE ADDRESS:
ADDRESSEE: Birch, Stewart, Kolasch & Birch
STREET: P.O. Box 747
CITY: Falls Church
STATE: Virginia
COUNTRY: USA
ZIP: 22040-0747
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/057,971
FILING DATE: 06-MAY-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: MURPHY JR., Gerald M.
REGISTRATION NUMBER: 28,977
REFERENCE/DOCKET NUMBER: 1110-129P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-205-8000
TELEFAX: 703-205-8050
TELEX:
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 91 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-057-971-2

Query Match 32.3%; Score 101.5; DB 1; Length 91;
Best Local Similarity 35.2%; Pred. No. 2.9e-05;
Matches 19; Conservative 8; Mismatches 22; Indels 5; Gaps 1;

QY 5 VOACT-----GPTSPHLVLMHYDPORGCMTPPARGCDGAARGFTYEACQAC 53
DB 23 VAACNLPIYRGPCRAFIQLMADFAYKGCVLFPYGGCGGNGKMFSEKRECYC 76

RESULT 7
US-08-293-150A-89
Sequence 89, Application US/08293150A
Patent No. 5792629
GENERAL INFORMATION:
APPLICANT: MORISHITA, Hideaki
APPLICANT: KANAMORI, Toshihiro
APPLICANT: NOBUHARA, Masahiro
TITLE OF INVENTION: POLYPEPTIDE, DNA FRAGMENT ENCODING THE

;; TITLE OF INVENTION: SAME AND PROCESS FOR PRODUCING THE SAME, AND ENZYME
;; TITLE OF INVENTION: INHIBITION PROCESS, DRUG COMPOSITION AND METHODS OF
;; TITLE OF INVENTION: TREATING USING THE SAME
;; NUMBER OF SEQUENCES: 110
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
;; STREET: P.O. Box 1404
;; CITY: Alexandria
;; STATE: Virginia
;; COUNTRY: United States
;; ZIP: 22313-1404
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patent In Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/293,150A
;; FILING DATE: 19-AUG-1994
;; CLASSIFICATION: 514
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 07/791,213
;; FILING DATE: 13-NOV-1990
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: JP 2-306745
;; FILING DATE: 13-NOV-1990
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Meuth, Donna M.
;; REGISTRATION NUMBER: 36,607
;; REFERENCE/DOCKET NUMBER: 029650-049
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (703) 836-6620
;; TELEFAX: (703) 836-6620
;; INFORMATION FOR SEQ ID NO: 89:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 91 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; US-08-293-150A-89

Query Match 32.3%; Score 101.5; DB 1; Length 91;
Best Local Similarity 35.28; Pred. NO. 2.9e-05;
Matches 19; Conservative 8; Mismatches 22; Indels 5; Gaps 1;

QY 5 VQACT-----GPTSPHLVLMHYDPORGCMTPPARCGDGAARGFETYEACQAC 53
Db 23 VAACMLPIVRGRCRAFIQLMAFDVAKGKCVLPYGGCGNGNKRFSEREKREYEC 76

RESULT 8
US-07-972-387-37
; Sequence 37, Application US/07972387
; Patent No. 5451659
; GENERAL INFORMATION:
; APPLICANT: Morishita, Hideaki
; APPLICANT: Kanamori, Toshinori
; APPLICANT: No. 5451659unara, Masahiro
; TITLE OF INVENTION: Polypeptide, DNA Fragment Encoding the
; TITLE OF INVENTION: Same, Drug Composition Containing the Same and Process for
; NUMBER OF SEQUENCES: 76
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Birch, Stewart, Kolasch & Birch
; STREET: 301 N. Washington St.
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22046-0747
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

;; SOFTWARE: Patent In Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/07/972,387
;; FILING DATE: 19921105
;; CLASSIFICATION: 435
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Murphy Jr., Gerald M.
;; REGISTRATION NUMBER: 28,977
;; REFERENCE/DOCKET NUMBER: 1110-124P
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 703-241-1300
;; TELEFAX: 703-241-2848
;; INFORMATION FOR SEQ ID NO: 37:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 68 amino acids
;; TYPE: AMINO ACID
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; HYPOTHETICAL: NO
;; FRAGMENT TYPE: C-terminal
;; ORIGINAL SOURCE: Escherichia coli
;; US-07-972-387-37

Query Match 32.0%; Score 100.5; DB 1; Length 68;
Best Local Similarity 36.5%; Pred. No. 2.9e-05;
Matches 19; Conservative 9; Mismatches 21; Indels 3; Gaps 1;

QY 2 LPVQACTGPTSPHLVLMHYDPORGCMTPPARCGDGAARGFETYEACQAC 53
Db 5 LPVQ--GPRAFIKILMAFDVAKGKCVLPYGGCGNGNKRFSEREKREYEC 53

RESULT 9
US-07-972-387-40
; Sequence 40, Application US/07972387
; Patent No. 5451659
; GENERAL INFORMATION:
; APPLICANT: Morishita, Hideaki
; APPLICANT: Kanamori, Toshinori
; APPLICANT: No. 5451659unara, Masahiro
; TITLE OF INVENTION: Polypeptide, DNA Fragment Encoding the
; TITLE OF INVENTION: Same, Drug Composition Containing the Same and Process for
; NUMBER OF SEQUENCES: 76
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Birch, Stewart, Kolasch & Birch
; STREET: 301 N. Washington St.
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22046-0747
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/972,387
; FILING DATE: 19921105
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M.
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 1110-124P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-241-1300
; TELEFAX: 703-241-2848
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 68 amino acids

TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHEICAL: NO
FRAGMENT TYPE: C-terminal
ORIGINAL SOURCE:
ORGANISM: Eschericia coli
US-07-972-387-40

Query Match 32.0%; Score 100.5; DB 1; Length 68;
Best Local Similarity 36.5%; Pred. No. 2.9e-05;
Matches 19; Conservative 9; Mismatches 21; Indels 3; Gaps 1;

QY 2 LPDVACGTGPTSPHLVLMHYDPQRGCMTFPARGCDGARGFETYEACQAC 53
DB 5 LPIVE---GPCRAFTKLMFADAVKGCVLFPYGGCGGNGNKFESKECREYC 53

RESULT 10
US-08-431-412-37

; Sequence 37, Application US/08431412
; Patent No. 5589360

; GENERAL INFORMATION:
; APPLICANT: Morishita, Hideaki
; APPLICANT: Kanamori, Toshiro
; APPLICANT: No. 5589360uhara, Masahiro
; TITLE OF INVENTION: Polypeptide, DNA Fragment Encoding the
; TITLE OF INVENTION: Same, Drug Composition Containing the Same and Process for
; TITLE OF INVENTION: Producing the Same
; NUMBER OF SEQUENCES: 76
; CURRENT APPLICATION DATA:
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Birch, Stewart, Kolasch & Birch
; STREET: 301 N. Washington St.
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22046-0747

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/431.412

; FILING DATE: 28-APR-1995
; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/972,387

; FILING DATE: 05-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M.

; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 1110-124P

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-241-1300
; TELEFAX: 703-241-2848

; TELEX: 248345
; INFORMATION FOR SEQ ID NO: 37:

; SEQUENCE CHARACTERISTICS:
; LENGTH: 68 amino acids
; TYPE: amino acid
; TOPOLOGY: linear

; MOLECULE TYPE: protein
; HYPOTHEICAL: NO
; FRAGMENT TYPE: C-terminal

; ORIGINAL SOURCE:
; ORGANISM: Eschericia coli
US-08-431-412-37

Query Match 32.0%; Score 100.5; DB 1; Length 68;
Best Local Similarity 36.5%; Pred. No. 2.9e-05;
Matches 19; Conservative 9; Mismatches 21; Indels 3; Gaps 1;

QY 2 LPDVACGTGPTSPHLVLMHYDPQRGCMTFPARGCDGARGFETYEACQAC 53
DB 5 LPIVE---GPCRAFTKLMFADAVKGCVLFPYGGCGGNGNKFESKECREYC 53

RESULT 11
US-08-431-412-40

; Sequence 40, Application US/08431412
; Patent No. 5589360

; GENERAL INFORMATION:
; APPLICANT: Morishita, Hideaki
; APPLICANT: Kanamori, Toshiro
; APPLICANT: No. 5589360uhara, Masahiro
; TITLE OF INVENTION: Polypeptide, DNA Fragment Encoding the
; TITLE OF INVENTION: Same, Drug Composition Containing the Same and Process for
; TITLE OF INVENTION: Producing the Same
; NUMBER OF SEQUENCES: 76
; CURRENT APPLICATION DATA:
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Birch, Stewart, Kolasch & Birch
; STREET: 301 N. Washington St.
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22046-0747

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/431.412

; FILING DATE: 28-APR-1995
; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/972,387
; FILING DATE: 05-NOV-1992

; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M.

; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 1110-124P

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-241-1300
; TELEFAX: 703-241-2848

; TELEX: 248345
; INFORMATION FOR SEQ ID NO: 40:

; SEQUENCE CHARACTERISTICS:
; LENGTH: 68 amino acids
; TYPE: amino acid
; TOPOLOGY: linear

; MOLECULE TYPE: protein
; HYPOTHEICAL: NO
; FRAGMENT TYPE: C-terminal

; ORIGINAL SOURCE:
; ORGANISM: Eschericia coli
US-08-431-412-40

Query Match 32.0%; Score 100.5; DB 1; Length 68;
Best Local Similarity 36.5%; Pred. No. 2.9e-05;
Matches 19; Conservative 9; Mismatches 21; Indels 3; Gaps 1;

QY 2 LPDVACGTGPTSPHLVLMHYDPQRGCMTFPARGCDGARGFETYEACQAC 53
DB 5 LPIVE---GPCRAFTKLMFADAVKGCVLFPYGGCGGNGNKFESKECREYC 53

RESULT 12
US-08-057-971-37

; Sequence 37, Application US/08057971
; Patent No. 5679770

; GENERAL INFORMATION:
; APPLICANT: Morishita, Hideaki
; APPLICANT: Kanamori, Toshiro
; APPLICANT: No. 5679770uhara, Masahiro

;; TITLE OF INVENTION: Polypeptide, DNA Fragment Encoding the
;; TITLE OF INVENTION: Same, Drug Composition Containing the Same and Process for
;; TITLE OF INVENTION: Producing the Same
;; NUMBER OF SEQUENCES: 81
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Birch, Stewart, Kolasch & Birch
;; STREET: P.O. Box 747
;; CITY: Falls Church
;; STATE: Virginia
;; COUNTRY: USA
;; ZIP: 22040-0747
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/057,971
;; FILING DATE: 06-MAY-1993
;; CLASSIFICATION: 435
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Murphy Jr., Gerald M.
;; REGISTRATION NUMBER: 28,977
;; REFERENCE/DOCKET NUMBER: 1110-129P
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 703-205-8000
;; TELEFAX: 703-205-8050
;; TELEX:
;; INFORMATION FOR SEQ ID NO: 37:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 68 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; HYPOTHEetical: NO
;; FRAGMENT TYPE: C-terminal
;; ORIGINAL SOURCE:
;; ORGANISM: Escherichia coli
;; US-08-057-971-37

Query Match 32.0%; Score 100.5; DB 1; Length 68;
Best Local Similarity 36.5%; Pred. No. 2.9e-05;
Matches 19; Conservative 9; Mismatches 21; Indels 3; Gaps 1;

QY 2 LPDVQACTGPTSPHLVIMHYDPQGGCTFPARGCDDGARGFETTYACQAC 53
DB 5 LPVQ--GPCRAFIKIMAFDAVKGCVLFPYGGCGNGNKNFSEKRECYC 53

RESULT 13
US-08-057-971-40
;; Sequence 40, Application US/08057971
;; Patent No. 5679770
;; GENERAL INFORMATION:
;; APPLICANT: Morishita, Hideaki
;; APPLICANT: Kanamori, Toshinori
;; TITLE OF INVENTION: Polypeptide, DNA Fragment Encoding the
;; TITLE OF INVENTION: Same, Drug Composition Containing the Same and Process for
;; NUMBER OF SEQUENCES: 81
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Birch, Stewart, Kolasch & Birch
;; STREET: P.O. Box 747
;; CITY: Falls Church
;; STATE: Virginia
;; COUNTRY: USA
;; ZIP: 22040-0747
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.25

;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/057,971
;; FILING DATE: 06-MAY-1993
;; CLASSIFICATION: 435
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Murphy Jr., Gerald M.
;; REGISTRATION NUMBER: 28,977
;; REFERENCE/DOCKET NUMBER: 1110-129P
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 703-205-8000
;; TELEFAX: 703-205-8050
;; TELEX:
;; INFORMATION FOR SEQ ID NO: 40:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 68 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; HYPOTHEtical: NO
;; FRAGMENT TYPE: C-terminal
;; ORIGINAL SOURCE:
;; ORGANISM: Escherichia coli
;; US-08-057-971-40

Query Match 32.0%; Score 100.5; DB 1; Length 68;
Best Local Similarity 36.5%; Pred. No. 2.9e-05;
Matches 19; Conservative 9; Mismatches 21; Indels 3; Gaps 1;

QY 2 LPDVQACTGPTSPHLVIMHYDPQGGCTFPARGCDDGARGFETTYACQAC 53
DB 5 LPVQ--GPCRAFIKIMAFDAVKGCVLFPYGGCGNGNKNFSEKRECYC 53

RESULT 14
US-07-972-387-10
;; Sequence 10, Application US/07972387
;; Patent No. 5451659
;; GENERAL INFORMATION:
;; APPLICANT: Morishita, Hideaki
;; APPLICANT: Kanamori, Toshinori
;; TITLE OF INVENTION: Polypeptide, DNA Fragment Encoding the
;; TITLE OF INVENTION: Same, Drug Composition Containing the Same and Process for
;; NUMBER OF SEQUENCES: 76
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Birch, Stewart, Kolasch & Birch
;; STREET: 301 N. Washington St.
;; CITY: Falls Church
;; STATE: Virginia
;; COUNTRY: USA
;; ZIP: 22046-0747
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/07/972,387
;; FILING DATE: 19921105
;; CLASSIFICATION: 435
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Murphy Jr., Gerald M.
;; REGISTRATION NUMBER: 28,977
;; REFERENCE/DOCKET NUMBER: 1110-124P
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 703-241-1300
;; TELEFAX: 703-241-2848
;; TELEX: 248345
;; INFORMATION FOR SEQ ID NO: 10:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 89 amino acids
;; TYPE: AMINO ACID

TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-972-387-10

Query Match 32.0%; Score 100.5; DB 1; Length 89;
Best Local Similarity 36.5%; Pred. No. 3.8e-05;
Matches 19; Conservative 9; Mismatches 21; Indels 3; Gaps 1;

OY 2 LPDVACTGPTSPHLVLMHYDPQRCMTFPARGCDGARGFETYACQOAC 53
DB 26 LPIVE---GPCRAFIQLMAFDVAKGCVLFPYGGCGGNGNKFSEKECREYC 74

RESULT 15
US-08-431-412-10
Sequence 10, Application US/08431412
Patent No. 5589360

GENERAL INFORMATION:

APPLICANT: Morishita, Hideaki

APPLICANT: Kanamori, Toshinori

TITLE OF INVENTION: Polypeptide, DNA Fragment Encoding the

TITLE OF INVENTION: Same, Drug Composition Containing the Same and Process for

NUMBER OF SEQUENCES: 76

CORRESPONDENCE ADDRESS:

ADDRESSEE: Birch, Stewart, Kolasch & Birch

STREET: 301 N. Washington St.

CITY: Falls Church

STATE: Virginia

COUNTRY: USA

ZIP: 22046-0747

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/431,412

FILING DATE: 28-APR-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/972,387

FILING DATE: 05-NOV-1992

ATTORNEY/AGENT INFORMATION:

NAME: Murphy Jr., Gerald M.

REGISTRATION NUMBER: 28,977

REFERENCE/DOCKET NUMBER: 1110-124P

TELECOMMUNICATION INFORMATION:

TELEPHONE: 703-241-1300

TELEFAX: 703-241-2848

TELEX: 248345

INFORMATION FOR SEQ ID NO: 10:

SEQUENCE CHARACTERISTICS:

LENGTH: 89 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-431-412-10

Query Match 32.0%; Score 100.5; DB 1; Length 89;

Best Local Similarity 36.5%; Pred. No. 3.8e-05;

Matches 19; Conservative 9; Mismatches 21; Indels 3; Gaps 1;

OY 2 LPDVACTGPTSPHLVLMHYDPQRCMTFPARGCDGARGFETYACQOAC 53
DB 26 LPIVE---GPCRAFIQLMAFDVAKGCVLFPYGGCGGNGNKFSEKECREYC 74

Search completed: February 20, 2003, 08:22:30
Job time : 3.25768 secs

This Page Blank (uspto)

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 20, 2003, 08:09:37 : Search time 33.6832 Seconds

(without alignments)
478.688 Million cell updates/sec

Title: US-09-819-136-2

Perfect score: 3016
Sequence: 1 MPALRLPLLLLLRLTSGA.....KRIELLEKQACELNRFQD 548

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/1/laa/5A.COMB.pep:*
2: /cgn2_6/ptodata/1/laa/5B.COMB.pep:*
3: /cgn2_6/ptodata/1/laa/6A.COMB.pep:*
4: /cgn2_6/ptodata/1/laa/6B.COMB.pep:*
5: /cgn2_6/ptodata/1/laa/PCITUS.COMB.pep:*
6: /cgn2_6/ptodata/1/laa/backfilest1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	358	11.9	59	US-09-388-183-2	Sequence 2, Appl 1
2	213	7.1	143	US-08-422-333-10	Sequence 10, Appl 1
3	213	7.1	143	US-08-422-333-10	Patent No. 5223482
4	213	7.1	144	US-08-422-333-10	Patent No. 5187153
5	213	7.1	147	US-08-358-160-72	Sequence 72, Appl 1
6	210	7.0	123	US-08-358-160-72	Patent No. 5466783
7	208	6.9	122	US-08-422-333-12	Sequence 12, Appl 1
8	207	6.9	122	US-08-422-333-12	Patent No. 5466783
9	207	6.9	122	US-08-422-333-12	Sequence 12, Appl 1
10	207	6.9	122	US-08-422-333-12	Patent No. 5187153
11	207	6.9	122	US-08-422-333-12	Patent No. 5220013
12	206	6.8	122	US-08-422-333-12	Patent No. 5466783
13	200.5	6.6	122	US-08-422-333-12	Patent No. 5223482
14	196	6.5	123	US-08-422-333-12	Patent No. 5466783
15	194.5	6.4	276	US-07-828-920A-1	Sequence 1, Appl 1
16	194.5	6.4	276	US-08-437-841-9	Sequence 9, Appl 1
17	194.5	6.4	276	US-08-286-521-9	Sequence 9, Appl 1
18	194.5	6.4	276	US-08-436-175-9	Sequence 9, Appl 1
19	194.5	6.4	276	US-08-796-850-1	Sequence 1, Appl 1
20	194.5	6.4	276	US-08-854-764-3	Sequence 1, Appl 1
21	194.5	6.4	276	US-08-943-682-9	Sequence 9, Appl 1
22	194.5	6.4	276	US-08-943-682-9	Sequence 9, Appl 1
23	194.5	6.4	276	US-08-943-682-9	Sequence 9, Appl 1
24	194.5	6.4	277	US-07-844-297-1	Sequence 9, Appl 1
25	194.5	6.4	304	US-08-026-145-2	Sequence 1, Appl 1
26	194.5	6.4	304	US-08-446-646-9	Sequence 9, Appl 1
27	194.5	6.4	304	US-08-676-125A-18	Sequence 18, Appl 1

28	194.5	6.4	304	US-09-136-012A-18	Sequence 18, Appl 1
29	194.5	6.4	304	US-08-676-124-1	Sequence 1, Appl 1
30	194.5	6.4	304	US-08-208-264A-25	Sequence 25, Appl 1
31	194.5	6.4	304	US-08-414-878-1	Sequence 1, Appl 1
32	194.5	6.4	304	US-09-240-136-1	Sequence 1, Appl 1
33	194.5	6.4	304	US-09-054-782-2	Sequence 2, Appl 1
34	194.5	6.4	304	US-09-421-097-25	Sequence 25, Appl 1
35	194.5	6.4	304	US-09-638-770A-1	Sequence 1, Appl 1
36	194.5	6.4	304	US-08-854-764-2	Patent No. 5466783
37	194.5	6.4	352	US-08-854-764-2	Sequence 2, Appl 1
38	194.5	6.4	352	PCT-US95-09377-2	Sequence 2, Appl 1
39	192	6.4	252	US-08-685-660A-7	Sequence 7, Appl 1
40	192	6.4	252	US-08-974-196-7	Sequence 7, Appl 1
41	192	6.4	252	US-09-071-709-10	Sequence 10, Appl 1
42	192	6.4	252	US-09-013-896A-2	Sequence 2, Appl 1
43	179.5	6.0	235	US-08-147-710-2	Sequence 2, Appl 1
44	179.5	6.0	235	US-08-458-090-2	Sequence 2, Appl 1
45	179.5	6.0	235	US-08-457-887-2	Sequence 2, Appl 1

ALIGNMENTS

RESULT 1
US-09-388-183-2
; Sequence 2, Application US/09388183
; Patent No. 6380354
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; TITLE OF INVENTION: KUNITZ DOMAIN POLYPEPTIDE ZKUN6
; FILE REFERENCE: 98-40
; CURRENT APPLICATION NUMBER: US/09/388,183
; CURRENT FILING DATE: 1999-09-01
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 59
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-388-183-2

Query Match 11.9% Score 358; DB 4; Length 59;
Best Local Similarity 100.0%; Pred. No. 3.5e-17;
Matches 59; Conservative 0; Mismatches 0; Indels 0;
DB 1 GPGDACYLPAVQGPCRGWEPHMYSPILQOCHPEYVYGCCEGNGNHFHRSCEADACVPV 59

RESULT 2
US-08-422-333-10
; Sequence 10, Application US/08422333
; Patent No. 5912410
; GENERAL INFORMATION:
; APPLICANT: CORDELL, Barbara L.
; TITLE OF INVENTION: TRANSGENIC NON-HUMAN MAMMAL DISPLAYING
; TITLE OF INVENTION: THE AMYLOID-FORMING PATHOLOG OF ALZHEIMER'S DISEASE
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Scios, Inc.
; STREET: 2450 Bayshore Parkway
; CITY: Mountain View
; STATE: CA
; COUNTRY: USA
; ZIP: 94043
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/422,333

```

; FILING DATE: 13-APR-1995
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Shearer, Peter R.
; REGISTRATION NUMBER: 28,117
; REFERENCE/DOCKET NUMBER: 21900-28048.00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 966-1550
; TELEFAX: (415) 968-2438
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 143 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-422-333-10

Query Match
Best Local Similarity 7.1%; Score 213; DB 2; Length 143;
Matches 42; Conservative 13; Mismatches 46; Indels 6; Gaps 2;

QY 306 CTGPTSPHLVLMHYDPQRGCMTEPARCGDGAARGEETYEACQACARGDGVAVQ 365
Db 35 CMGMTSRF-----YNGTSNACETFOYGGCMGNNGNMFVTEKECLQTCRTVA--ACNLPVIR 88
QY 366 GPCRGWEPRMAYSPILQOCHPEYVYGGCEGNGNMFHRSRESCDACPVP 412
Db 89 GPCRAFIQLMAFDVAVKGCVLFPYGGCGNGNKFYSKEKREYCGVP 135

RESULT 3
5223482-20
; Patent No. 5223482
; APPLICANT: SCHILLING, JAMES W.;PONTE, PHYLLIS A.;CORDELL,
; BARBARA
; TITLE OF INVENTION: RECOMBINANT ALZHEIMER'S PROTEASE
; INHIBITORY AMYLOID PROTEIN AND METHOD OF USE
; NUMBER OF SEQUENCES: 34
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/361,912
; FILING DATE: 06-JUN-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 359,911
; FILING DATE: 12-MAY-1989
; APPLICATION NUMBER: 87,002
; FILING DATE: 18-AUG-1987
; APPLICATION NUMBER: 8,810
; FILING DATE: 30-JAN-1987
; APPLICATION NUMBER: 948,376
; FILING DATE: 31-DEC-1986
; APPLICATION NUMBER: 932,193
; FILING DATE: 17-NOV-1986
; SEQ ID NO: 20:
; LENGTH: 143
; 5223482-20

Query Match
Best Local Similarity 7.1%; Score 213; DB 6; Length 143;
Matches 42; Conservative 13; Mismatches 46; Indels 6; Gaps 2;

QY 306 CTGPTSPHLVLMHYDPQRGCMTEPARCGDGAARGEETYEACQACARGDGVAVQ 365
Db 35 CMGMTSRF-----YNGTSNACETFOYGGCMGNNGNMFVTEKECLQTCRTVA--ACNLPVIR 88
QY 366 GPCRGWEPRMAYSPILQOCHPEYVYGGCEGNGNMFHRSRESCDACPVP 412
Db 89 GPCRAFIQLMAFDVAVKGCVLFPYGGCGNGNKFYSKEKREYCGVP 135

RESULT 4
5187153-18
; Patent No. 5187153
; APPLICANT: CORDELL, BARBARA;SCHILLING, JAMES W.;KATUNUMA, NOBUHIKO
```

```

; TITLE OF INVENTION: METHODS OF TREATMENT USING ALZHEIMER'S
; AMYLOID POLYPEPTIDE DERIVATIVES
; NUMBER OF SEQUENCES: 33
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/502,273
; FILING DATE: 29-MAR-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 361,912
; FILING DATE: 06-JUN-1989
; APPLICATION NUMBER: 359,911
; FILING DATE: 12-MAY-1989
; APPLICATION NUMBER: 87,002
; FILING DATE: 18-AUG-1987
; APPLICATION NUMBER: 8,810
; FILING DATE: 30-JAN-1987
; APPLICATION NUMBER: 948,376
; FILING DATE: 31-DEC-1986
; APPLICATION NUMBER: 932,193
; FILING DATE: 17-NOV-1986
; SEQ ID NO:18:
; LENGTH: 144
; 5187153-18

Query Match
Best Local Similarity 7.1%; Score 213; DB 6; Length 144;
Matches 42; Conservative 13; Mismatches 46; Indels 6; Gaps 2;

QY 306 CTGPTSPHLVLMHYDPQRGCMTEPARCGDGAARGEETYEACQACARGDGVAVQ 365
Db 35 CMGMTSRF-----YNGTSNACETFOYGGCMGNNGNMFVTEKECLQTCRTVA--ACNLPVIR 88
QY 366 GPCRGWEPRMAYSPILQOCHPEYVYGGCEGNGNMFHRSRESCDACPVP 412
Db 89 GPCRAFIQLMAFDVAVKGCVLFPYGGCGNGNKFYSKEKREYCGVP 135

RESULT 5
US-08-358-160-72
; Sequence 72, Application US/08358160
; Patent No. 5663143
; GENERAL INFORMATION:
; APPLICANT: LEY, Arthur C.
; APPLICANT: LADNER, Robert C.
; APPLICANT: GUTERMAN, Sonia K.
; APPLICANT: ROBERTS, Bruce L.
; APPLICANT: MARKLAND, William
; APPLICANT: KENT, Rachel B.
; TITLE OF INVENTION: ENGINEERED HUMAN-DERIVED KUNITZ
; NUMBER OF SEQUENCES: 234
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W. Suite 300
; CITY: Washington
; STATE: District of Columbia
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/358,160
; FILING DATE: 16-DEC-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/133,031
; FILING DATE: 13-OCT-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/009,319
; FILING DATE: 26-JAN-1993
; PRIOR APPLICATION DATA:
```

APPLICATION NUMBER: US 07/664,989
FILING DATE: 01-MAR-1991
PRIOR APPLICATION DATA: US 07/487,063
APPLICATION NUMBER: 02-MAR-1990
FILING DATE: 02-MAR-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/240,160
FILING DATE: 02-SEP-1988
ATTORNEY/AGENT INFORMATION:
NAME: Cooper, Iver P.
REGISTRATION NUMBER: 28,005
REFERENCE/DOCKET NUMBER: LEY-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
TELEX: 248633
INFORMATION FOR SEQ ID NO: 72:
SEQUENCE CHARACTERISTICS:
LENGTH: 147 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-358-160-72

Query Match 7.1%; Score 213; DB 1; Length 147;
Best Local Similarity 40.2%; Pred. No. 2.9e-07;
Matches 43; Conservative 12; Mismatches 46; Indels 6; Gaps 2;

QY 306 GPTSPHLVLMHYDPORGCGCTFPARGCDGARCFETYEACQACARGPDACVLPAYQ 365
DB 35 CMCMTSRVF---YNGTSMACETFFOYGGCGNGNNFVTEECLOTCTRTVA--ACNLPYR 88

QY 366 GPCRGNEPRMAYSPLLQOCHPFVYGCCEGNGNNFHSRSCEDACPVP 412
DB 89 GPCRATLOLMAFDAQKCVLFYTGCGNGNKFYSEKECEKREYCGVP 135

RESULT 6
5466783-22
Patent No. 5466783
APPLICANT: Mun, Tze-Chen, Kretzmer, Kuniko K., Broze, George J., Jr.
TITLE OF INVENTION: HUMAN TISSUE FACTOR INHIBITOR
NUMBER OF SEQUENCES: 26
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/93,285
FILING DATE: 15-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 566,280
FILING DATE: 13-AUG-1990
APPLICATION NUMBER: 123,753
FILING DATE: 23-NOV-1987
APPLICATION NUMBER: 77,366
FILING DATE: 23-JUL-1987
SEQ ID NO: 22
LENGTH: 123
5466783-22

Query Match 7.0%; Score 210; DB 6; Length 123;
Best Local Similarity 39.0%; Pred. No. 3.8e-07;
Matches 41; Conservative 14; Mismatches 48; Indels 2; Gaps 1;

QY 308 GPTSPHLVLMHYDPORGCGCTFPARGCDGARCFETYEACQACARGPDACVLPAYQ 367
DB 12 GPCLGMIKRFYNGSMACETFFOYGGCGNGNNFVSQKECLQCTRTVA--TYSACSLPYQGP 69

QY 368 CRGMEPRMAYSPLLQOCHPFVYGCCEGNGNNFHSRSCEDACPVP 412
DB 70 CRAFTLMMAFDAAQKCVLFYTGCGNGNKFYSQKECEKREYCGVP 114

RESULT 7

5466783-21
Patent No. 5466783
APPLICANT: Mun, Tze-Chen, Kretzmer, Kuniko K., Broze, George J., Jr.
TITLE OF INVENTION: HUMAN TISSUE FACTOR INHIBITOR
NUMBER OF SEQUENCES: 26
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/93,285
FILING DATE: 15-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 566,280
FILING DATE: 13-AUG-1990
APPLICATION NUMBER: 123,753
FILING DATE: 23-NOV-1987
APPLICATION NUMBER: 77,366
FILING DATE: 23-JUL-1987
SEQ ID NO: 21
LENGTH: 123
5466783-21

Query Match 6.9%; Score 208; DB 6; Length 123;
Best Local Similarity 38.1%; Pred. No. 5.1e-07;
Matches 40; Conservative 14; Mismatches 49; Indels 2; Gaps 1;

QY 308 GPTSPHLVLMHYDPORGCGCTFPARGCDGARCFETYEACQACARGPDACVLPAYQ 367
DB 12 GPCLGMIKRFYNGSMACETFFOYGGCLGNGNNFASQKECLQCTRTVA--ACNLPYQGP 69

QY 368 CRGMEPRMAYSPLLQOCHPFVYGCCEGNGNNFHSRSCEDACPVP 412
DB 70 CRAFTLMMAFDAAQKCVLFYTGCGNGNKFYSQKECEKREYCGVP 114

RESULT 8
US-08-422-333-12
Sequence 12, Application US/08422333
Patent No. 5912410
GENERAL INFORMATION:
APPLICANT: CORDELL, Barbara L.
TITLE OF INVENTION: TRANSGENIC NON-HUMAN MAMMAL DISPLAYING
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Scios, Inc.
STREET: 2450 Bayshore Parkway
CITY: Mountain View
STATE: CA
COUNTRY: USA
ZIP: 94043
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/422,333
FILING DATE: 13-APR-1995
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Shearer, Peter R.
REGISTRATION NUMBER: 28,117
REFERENCE/DOCKET NUMBER: 21900-28048,00
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 966-1550
TELEFAX: (415) 966-2438
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 122 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-422-333-12

```

; LENGTH: 122
5220013-23

Query Match          6.9%; Score 207; DB 6; Length 122;
Best Local Similarity 38.1%; Pred. No. 5,9e-07;
Matches 40; Conservative 16; Mismatches 47; Indels 2; Gaps 1

QY   308 GPSPHLYLVNHYDPQGGCTFPARGCDGAARGFETFEACQCAAGCPDADCVLPVQGP 367
      ||| :||| :||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB   12 GPLGLGFKRFTFYGTSMACETFLLYGCGMGNLNNFSLSQKEQLGCR--IWEACNLPIVQGP 69

QY   368 CRGWEPMAVSPLLQQCHPFYVGCGCGNGNHNFSRSCEPDACVPV 412
      || :|| :|| :|| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB   70 CRAFTQLMAFDVAVKCKVFRTSYGCGKGNKNKFYSQKECKEYEGIP 114

RESULT 11
5466783-24
Patent No. 5466783
APPLICANT: Mun, Tze-Chen,I,Kretzmer, Kuniko K.,Broze,
George J., Jr.
TITLE OF INVENTION: HUMAN TISSUE FACTOR INHIBITOR
NUMBER OF SEQUENCES: 26
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/93,285
FILING DATE: 15-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 566,280
FILING DATE: 13-AUG-1990
APPLICATION NUMBER: 123,753
FILING DATE: 23-NOV-1987
APPLICATION NUMBER: 77,366
FILING DATE: 23-JUL-1987
SEQ ID NO:24
LENGTH: 127
5466783-24

Query Match          6.9%; Score 207; DB 6; Length 127;
Best Local Similarity 40.4%; Pred. No. 6,2e-07;
Matches 44; Conservative 12; Mismatches 45; Indels 8; Gaps 3;

QY   306 CGNPSPHLYLVNHYDPQGGCTFPARGCDDGARBFETFEACQCAAGPDAVCYLPAVQ 365
      ||| ||| :||| :||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB   14 CNGMTSRIF--YNGTSMACEFFQYGGCMGNGNHFVEKECLDQRTVA--ACNLPIVR 67

QY   366 GPCRGMEPRMAVSPLLQOCHPFYVGCGCGNGNHNFSRSCS--DACVPV 412
      ||| :|| :|| :|| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB   68 GPCRAFIQLMAFDVAVKGCYLFPIYGGCGGNGNKTFSEKRECRETCYGV 116

RESULT 12
5223482-22
Patent No. 5223482
APPLICANT: SCHILLING, JAMES W.;PONTE, PHYLLIS A.;CORDELL, BARBARA
TITLE OF INVENTION: RECOMBINANT ALZHEIMER'S PROTEASE
INHIBITORY AMYLOID PROTEIN AND METHOD OF USE
NUMBER OF SEQUENCES: 34
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/361,912
FILING DATE: 06-JUN-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 359,911
FILING DATE: 12-MAY-1989
APPLICATION NUMBER: 87,002
FILING DATE: 18-AUG-1987
APPLICATION NUMBER: 8,810
FILING DATE: 30-JAN-1987
APPLICATION NUMBER: 948,376
FILING DATE: 31-DEC-1986
APPLICATION NUMBER: 932,193
FILING DATE: 17-NOV-1986
SEQ ID NO:22.
```

; LENGTH: 122						
5223482-22						
Query Match 6.8%; Score 206; DB 6; Length 122;						
Best Local Similarity 39.6%; Pred. No. 6,9e-07;						
Matches 38; Conservative 16; Mismatches 40; Indels 2; Gaps 1;						
Oy	317	WHYPDQGGCMTFPARGCDGAARCFEYTYEACQACARCGDADCVLPAYOGPFCRGHEPRMA	376			
Dd	23	YFYNQTSMACFEEYGCGMGLNLFSLQKECLQTCT--TVEACNLPIYOGCPAFITQLMA	80			
Oy	377	KSPLLQQCHPEFVYGCCEGNGNNFHRSRESCEDACPVP	412			
Dd	81	FDAVKKCYRFSTYGGCKGNKNKFYSQKECKEYCGIP	116			
RESULT 13						
5466783-23						
Patent No. 5466783						
Applicant: Wun, Tze-Chen.; Kretzmer, Kuniko K.; Broeze,						
George J. Jr.						
TITLE OF INVENTION: HUMAN TISSUE FACTOR INHIBITOR						
NUMBER OF SEQUENCES: 26						
CURRENT APPLICATION DATA:						
APPLICATION NUMBER: US/08/93,285						
FILING DATE: 15-JUL-1993						
PRIOR APPLICATION DATA:						
APPLICATION NUMBER: 566,280						
FILING DATE: 13-AUG-1990						
APPLICATION NUMBER: 123,753						
FILING DATE: 23-NOV-1987						
APPLICATION NUMBER: 77,366						
FILING DATE: 23-JUL-1987						
SEQ ID NO.:23:						
LENGTH: 122						
5466783-23						
Query Match 6.6%; Score 200.5; DB 6; Length 122;						
Best Local Similarity 38.1%; Pred. No. 1.6e-06;						
Matches 40; Conservative 16; Mismatches 46; Indels 3; Gaps 2;						
Oy	308	GPTSHLVLMHYDPQRGCMTPFRAGCDGARCFETYEACQACARCGDADCVLPAYOGP	367			
Dd	12	GPCLGLEFRYYNGTSMACEFT-LGGCMGNLNNFLSQKECLQTCT--TVEACNLPIYOGP	68			
Oy	368	CRCWEPRAWYSPILQQCHPEFVYGCCEGNGNNFHRSRESCEDACPVP	412			
Dd	69	CRAFIQLMAFDAVKKCYRFSTYGGCKGNKNKFYSQKECKEYCGIP	113			
RESULT 14						
5466783-25						
Patent No. 5466783						
Applicant: Wun, Tze-Chen.; Kretzmer, Kuniko K.; Broeze,						
George J. Jr.						
TITLE OF INVENTION: HUMAN TISSUE FACTOR INHIBITOR						
NUMBER OF SEQUENCES: 26						
CURRENT APPLICATION DATA:						
APPLICATION NUMBER: US/08/93,285						
FILING DATE: 15-JUL-1993						
PRIOR APPLICATION DATA:						
APPLICATION NUMBER: 566,280						
FILING DATE: 13-AUG-1990						
APPLICATION NUMBER: 123,753						
FILING DATE: 23-NOV-1987						
APPLICATION NUMBER: 77,366						
FILING DATE: 23-JUL-1987						
SEQ ID NO.:25:						
LENGTH: 213						
5466783-25						
Query Match 6.5%; Score 196; DB 6; Length 213;						
Best Local Similarity 30.2%; Pred. No. 5.6e-06;						

Matches	49:	Conservative	20:	Mismatches	59:	Indels	34:	Gaps	5:
QY	263	CTARNAAGILRADPFLSVQREPARDAAPSLPAECL--PDVQACTPTSPHLVLMHYD	320						
Db	58	CTRDANARLIK-----TTLQOE-----KPDFCELEEDPGICRG-----YIRRYEYN	98						
QY	321	PORGCMTFPAPGCCGGAARGFTFYACQACARGG-----DACVLPAVQGP	367						
Db	99	NOTKCCERKYGCGCLCNMNFETLECKNICDGRNGFOVDYNGEHPGSMCLTPADRGCL	158						
QY	368	CRGWEPNMAVSPLLQCHPFYVYGCCEGNGNNFHSRECEDAC	409						
Db	159	CRANENRFYNSVIGKCRPFKISGCGGNENFTSKQDECLRAC	200						
RESULT	15								
	US-07-828-920A-1								
	Sequence 1, Application US/07828920A								
	Patent No. 5312736								
	GENERAL INFORMATION:								
	APPLICANT: Rasmussen, Jesper								
	APPLICANT: No. 5312736dfang, Ole Junl								
	TITLE OF INVENTION: Anticoagulant Protein								
	NUMBER OF SEQUENCES: 7								
	CORRESPONDENCE ADDRESS:								
	ADDRESSEE: No. 53127360 No. 5312736disk of No. 5312736th America, Inc.								
	STREET: 405 Lexington Avenue, Suite 6200								
	CITY: New York								
	STATE: New York								
	COUNTRY: United States of America								
	ZIP: 10174-6201								
	COMPUTER READABLE FORM:								
	MEDIUM TYPE: Floppy disk								
	COMPUTER: IBM PC compatible								
	OPERATING SYSTEM: PC-DOS/MS-DOS								
	SOFTWARE: Patentin Release #1.0, Version #1.25								
	CURRENT APPLICATION DATA:								
	APPLICATION NUMBER: US/07/828.920A								
	FILING DATE: 19920127								
	CLASSIFICATION: 530								
	PRIOR APPLICATION DATA:								
	APPLICATION NUMBER: DK 4080/89								
	FILING DATE: 18-AUG-1989								
	APPLICATION NUMBER: WO PCT/DK90/00212								
	FILING DATE: 17/AUG/1990								
	ATTORNEY/AGENT INFORMATION:								
	NAME: Zelson, Steve T.								
	REGISTRATION NUMBER: 30335								
	REFERENCE/DOCKET NUMBER: 3287.204-US								
	TELECOMMUNICATION INFORMATION:								
	TELEPHONE: 212 867 0123								
	TELEFAX: 212 867 0298								
	INFORMATION FOR SEQ ID NO: 1:								
	SEQUENCE CHARACTERISTICS:								
	LENGTH: 276 amino acids								
	TYPE: AMINO ACID								
	STRANDEDNESS: single								
	TOPOLOGY: linear								
	MOLECULE TYPE: protein								
	ORIGINAL SOURCE:								
	ORGANISM: Homo sapiens								
	FEATURE:								
	NAME/KEY: Protein								
	LOCATION: 1..276								
	US-07-828-920A-1								
Query Match		6.4%;	Score 194.5;	DB 1;	Length 276;				
Best Local Similarity		27.3%;	Pred. No. 9.3e-06;						
Matches	50;	Conservative	20;	Mismatches	58;	Indels	55;	Gaps	5;
QY	263	CTARNAAGILRADPFLSVQREPARDAAPSLPAECL--PDVQACTPTSPHLVLMHYD	320						
Db	76	CTRDANARLIK-----TTLQOE-----KPDFCELEEDPGICRG-----YIRRYEYN	116						

```

OY 321 PORGGMTFPPARGCDGAARGFETYEACOOACARGP----- 356
Db 117 NOTKOCERPKYGGCIGNMNNEFTLEBCKNICEDGPNGFQVDNYGTQLNANNSLTPOSTK 176
OY 357 -----DACVLPAVQGPCRGWEPKRWAYSPLLQCHPFVYGGCEGNGNMFHSRESCE 406
Db 177 VPSLFEFHGSPWCLTPADRLCRRANENRPFYNSVIGKCRPFKYSGGCGNENNFSTKQECI 236
OY 407 DAC 409
Db 237 RAC 239

```

Search completed: February 20, 2003, 08:22:26
 Job time : 35.6832 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 20, 2003, 08:21:07 ; Search time 22.6714 Seconds
(without alignments)
617.553 Million cell updates/sec

Title: US-09-819-136-2

Perfect score: 3016
Sequence: 1 MPALRPPLPLLLRLTSGA.....KKILELLEKQACELLNRFQD 548

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 140259 seqs, 25548876 residues

Total number of hits satisfying chosen parameters: 140259

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published_Applications_AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
- 2: /cgn2_6/ptodata/1/pubpaa/PCRT_NEW_PUB.pep:*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
- 6: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
- 7: /cgn2_6/ptodata/1/pubpaa/PCRTUS_PUBCOMB.pep:*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
- 9: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep:*
- 10: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
- 11: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
- 12: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*
- 13: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
- 14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	3016	100.0	548	10 US-09-819-136-2	Sequence 2, App11
2	1655	54.9	576	10 US-09-794-589-2	Sequence 2, App11
3	358	11.9	59	12 US-10-021-963-2	Sequence 2, App11
4	213	7.1	366	10 US-09-925-301-1175	Sequence 1175, App
5	194.5	6.4	276	9 US-10-086-176A-5	Sequence 5, App11
6	194.5	6.4	276	9 US-09-741-106-9	Sequence 9, App11
7	194.5	6.4	276	10 US-09-766-778-1	Sequence 1, App11
8	192	6.4	252	10 US-09-827-948-2	Sequence 2, App11
9	192	6.4	270	9 US-09-808-602-48	Sequence 48, App1
10	192	6.4	289	10 US-09-925-301-1266	Sequence 1266, App
11	188	6.2	291	9 US-09-924-340-48	Sequence 48, App1
12	188	6.2	291	9 US-09-924-340-52	Sequence 52, App1
13	188	6.2	291	9 US-09-992-600A-48	Sequence 48, App1
14	188	6.2	291	9 US-09-992-600A-52	Sequence 52, App1
15	179.5	6.0	235	9 US-09-736-457-332	Sequence 332, App
16	179.5	6.0	235	9 US-09-902-941-332	Sequence 332, App
17	179.5	6.0	235	9 US-09-849-626-332	Sequence 332, App
18	179.5	6.0	235	10 US-09-904-621-2	Sequence 2, App11
19	179	5.9	213	9 US-10-086-176A-6	Sequence 6, App11

20	179	5.9	213	10 US-09-766-778-2	Sequence 2, App11
21	179	5.9	1940	9 US-10-016-283-34	Sequence 34, App1
22	174.5	5.8	161	9 US-09-741-106-19	Sequence 19, App1
23	173.5	5.8	513	10 US-09-765-449-18	Sequence 18, App1
24	171.5	5.7	304	9 US-09-808-602-56	Sequence 56, App1
25	168.5	5.6	1395	9 US-09-808-602-67	Sequence 67, App1
26	167.5	5.6	304	9 US-10-227-884-84	Sequence 84, App1
27	167.5	5.6	304	10 US-09-893-737-304	Sequence 304, App
28	166.5	5.5	1535	9 US-10-189-971-14	Sequence 14, App1
29	166.5	5.5	1570	9 US-10-189-971-12	Sequence 12, App1
30	164.5	5.5	529	10 US-09-742-201-2	Sequence 2, App11
31	162	5.4	51	9 US-09-741-106-2	Sequence 2, App11
32	162	5.4	51	10 US-09-827-948-7	Sequence 7, App11
33	162	5.4	55	10 US-09-904-621-15	Sequence 15, App1
34	156.5	5.2	1745	10 US-09-800-729-89	Sequence 89, App1
35	156.5	5.2	1762	9 US-10-044-807-2	Sequence 2, App11
36	156.5	5.2	1766	10 US-09-764-853-554	Sequence 554, App
37	155.5	5.2	282	9 US-09-808-602-52	Sequence 52, App1
38	154	5.1	92	9 US-10-125-258-79	Sequence 79, App1
39	154	5.1	92	9 US-10-125-258-80	Sequence 80, App1
40	153	5.1	1252	9 US-09-908-193-19	Sequence 19, App1
41	153	5.1	1253	9 US-09-908-193-20	Sequence 20, App1
42	153	5.1	1342	9 US-10-189-971-24	Sequence 24, App1
43	153	5.1	1477	9 US-10-189-971-8	Sequence 8, App11
44	153	5.1	1512	9 US-10-189-971-10	Sequence 10, App1
45	153	5.1	1593	9 US-10-189-971-4	Sequence 4, App11

ALIGNMENTS

RESULT 1
US-09-819-136-2
; Sequence 2, Application US/09819136
; Patent No. US2002016789A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Geo. Zeren
; TITLE OF INVENTION: MULTI-DOMAIN PROTEINASE INHIBITOR
; FILE REFERENCE: 00-25
; CURRENT APPLICATION NUMBER: US/09/819,136
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 60/7193,642
; PRIOR FILING DATE: 2000-03-31
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 548
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-819-136-2

Query Match 100.0%; Score 3016; DB 10; Length 548;
Best Local Similarity 100.0%; Pred. No. 3.4e-155;
Matches 548; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPALRPPLPLLLRLTSGAGLLPGIGSHPGVCNPQLSPNLWVDAQSTCERCSCRQDCA 60
DB 1 MPALRPPLPLLLRLTSGAGLLPGIGSHPGVCNPQLSPNLWVDAQSTCERCSCRQDCA 60
QY 61 AAEKCIIVCGIHSVAARFPGSPAAPTAAACDEFPVCGQSGDDIMGQGVRCRQDRC 120
DB 61 AAEKCIIVCGIHSVAARFPGSPAAPTAAACDEFPVCGQSGDDIMGQGVRCRQDRC 120
QY 121 EKEPFTCASDGLTYNNRCYMDAEACLRGLHLIYPCCKHVLSPSSPGPETTARPPG 180
DB 121 EKEPFTCASDGLTYNNRCYMDAEACLRGLHLIYPCCKHVLSPSSPGPETTARPPG 180
QY 181 AAVPPALYSSPSPAVQVGTASLHCDVSGRPAPVATWEEKOSHORENIMRPDQYGV 240
DB 181 AAVPPALYSSPSPAVQVGTASLHCDVSGRPAPVATWEEKOSHORENIMRPDQYGV 240
QY 241 VVTSIGQLVLYNAREDDAGLYCTARMAAGLRAQFPPLSVQREPARDAAPISPAECL 300

```

|||||
Db 241 VVTSIGOLVLYNARPEDEGLTYCTARNAGLIRADFPISVYQREBARAAPSIPAPAECL 300
OY 301 PDVQACTGPTSPHLVIMHYDPORGCGMTFPAKCGDGAARGFETYPACQOACARGGDCAV 360
Db 301 PDVQACTGPTSPHLVIMHYDPORGCGMTFPAKCGDGAARGFETYPACQOACARGGDCAV 360
OY 361 LPAVQPCRGMEPRMAYSPLLQOCHPFYVYGCEGNGNHFHRSCECEDACVPYPRPPCRAC 420
Db 361 LPAVQPCRGMEPRMAYSPLLQOCHPFYVYGCEGNGNHFHRSCECEDACVPYPRPPCRAC 420
OY 421 RLRSKLAISLCRSDPAIVGRILEVEEPEAAGIARVALEVLKDDKMKLFGTKYLEV 480
Db 421 RLRSKLAISLCRSDPAIVGRILEVEEPEAAGIARVALEVLKDDKMKLFGTKYLEV 480
OY 481 TLSCGDMACPCPNMTAGDGPLVINGEVRDVAVIDAGSYVRAASRKYKLTLELKERAC 540
Db 481 TLSCGDMACPCPNMTAGDGPLVINGEVRDVAVIDAGSYVRAASRKYKLTLELKERAC 540
OY 541 ELLNRFQD 548
Db 541 ELLNRFQD 548

```

```

RESULT 2
US-09-794-589-2
; Sequence 2, Application US/09794589
; Patent No. US20020004224A1
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: KUNITZ DOMAIN POLYPEPTIDE ZKUN8
; FILE REFERENCE: 00-01
; CURRENT APPLICATION NUMBER: US/09/794,589
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/186,069
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 576
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-794-589-2

```

```

Query Match          54.9%; Score 1655; DB 10; Length 576;
Best Local Similarity 55.5%; Pred. No. 3.9e-82;
Matches 311; Conservative 77; Mismatches 146; Indels 26; Gaps 8;

```

```

OY 7 LPLLLLRLLRSLGAGLPGIG-SHPGVCPLQSLPMLVNDASQTCERCSRDQCAAEK 65
Db 19 LLLLLLVPPPSLALPPIRTYSHAGICPDMDNMLVNDASQTCRRCETDQECETYEKC 78
OY 66 CINVCGLSHSCVAARF-----PGSPAPPTTAASCEGFVCPQOQSDCDIMDQAPVCRDR 120
Db 79 CPNVCGTKSCVAARYMDVKKGKGVKPRKATCDHEMCIDQSGSCDIDMDQAPVCKKDR 138
OY 121 EKESFTFCADGLTYRRCMDAECIRGLHLITVPCKHVLSWPPSPGPETPTARPTG 180
Db 139 EKESFTFCADGLTYRRCMDAECIRGLHLITVPCKHVLSWPPSPGPETPTARPTG 180
OY 181 AAPP-----PALYSSPSQAVOVGGTASLHCDVSGRPAPYATWESQHSQNRNLRMP 234
Db 199 SPETPELMDAAPALINLPVQOSTMGTSTFLCDVVGRRPETTWESQHSQNRNLRMP 258
OY 235 QMYGNVVVTSIGLVYNARPEDEGLTYCTARNAGLIRADFPISVYQREBARAAPSIP 294
Db 259 HVGNNVVVTVIAQDLVINYAQLDAGIYCTARNVAGVLRADFPISVYRGNQAATSESSP 318
OY 295 -----APAECL--PDVQACTGPTSPHLVIMHYDPORGCGMTFPAKCGDGAARGFETYEAC 347
Db 319 NGTAPPAECLKPPDSDC-----GEQTRWHFDQAQANNCITLFTFGCHRNLIHFETYEAC 374
OY 348 QOACARPGDCAVLPVQPCRGMEPRMAYSPLLQOCHPFYVYGCEGNGNHFHRSCECED 407

```

```

|||||
Db 375 MLACMSGPLAACSLPALQGPCKAKAPRMAVNSQGGQGSFYVYGCEGNGNHFERACEE 434
OY 408 ACPVPR--TPPCRARLRSKLAISLCRSDPAIVGRILEVEEPEAAGIARVALEVLKDD 466
Db 435 SCPEPRGNORCKAPRCKPRKLVTSRCRSDPVLIGVSELTTERPDS--GRALTVDEVAKDE 492
OY 467 KMGKLFQGTXYLETLSGMDWACPCPNMTAGDGPLVINGEVRDVAVIDAGSYVRAASR 526
Db 493 KMGKLFQGTXYLETLSGMDWACPCPNMTAGDGPLVINGEVRDVAVIDAGSYVRAASR 552
OY 527 RVKKLTLELKERACCELLNRF 546
Db 553 RVKKLTLELKERACCELLNRF 572

```

```

RESULT 3
US-10-021-963-2
; Sequence 2, Application US/10021963
; Patent No. US20020110887A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; TITLE OF INVENTION: KUNITZ DOMAIN POLYPEPTIDE ZKUN6
; FILE REFERENCE: 98-40
; CURRENT APPLICATION NUMBER: US/10/021,963
; CURRENT FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US/09/388,183
; PRIOR FILING DATE: 1999-09-01
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 59
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-021-963-2

```

```

Query Match          11.9%; Score 358; DB 12; Length 59;
Best Local Similarity 100.0%; Pred. No. 1.8e-13;
Matches 59; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

OY 354 GPDDACTLPVQPCRGMEPRMAYSPLLQOCHPFYVYGCEGNGNHFHRSCECEDACVP 412
Db 1 GPDDACTLPVQPCRGMEPRMAYSPLLQOCHPFYVYGCEGNGNHFHRSCECEDACVP 59
RESULT 4
US-09-925-301-1175
; Sequence 1175, Application US/09925301
; Patent No. US2002052308A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1175
; LENGTH: 366
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-925-301-1175

```

```

Query Match          7.1%; Score 213; DB 10; Length 366;
Best Local Similarity 40.2%; Pred. No. 6e-05;
Matches 43; Conservative 12; Mismatches 46; Indels 6; Gaps 2;
OY 306 CTGPTSPHLVIMHYDPORGCGMTFPAKCGDGAARGFETYEACQOACARPGDCAVLPVQ 365

```

Db 254 CWMGTSRYF----YNGTSMACETFPYGGCMGNGNNFVTEKECLQTCRTVA--ACNLPIVR 307
QY 366 GCGRGWEPMAVSPLLOQCHFPYVGGCEGNGNNFHSRESCCEACVP 412
Db 308 GPCRAFIOLMAFDVAKGCVLPYGGCGGNGNKFYSEKREYCGVP 354

RESULT 5
US-10-086-176A-5
; Sequence 5, Application US/10086176A
; Patent No. US20020173465A1
; GENERAL INFORMATION:
; APPLICANT: Hembrough, Todd
; APPLICANT: Papathanassiou, Adonia E.
; APPLICANT: Green, Shawn J.
; TITLE OF INVENTION: Compositions and Methods for Inhibiting Cellular Proliferation
; TITLE OF INVENTION: TFP1 Fragments
; FILE REFERENCE: 05213-0296 43170-266780
; CURRENT APPLICATION NUMBER: US/10/086,176A
; CURRENT FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 09/766,778
; PRIOR FILING DATE: 2001-01-22
; PRIOR APPLICATION NUMBER: US 09/227,955
; PRIOR FILING DATE: 1999-01-11
; PRIOR APPLICATION NUMBER: US 08/796,850
; PRIOR FILING DATE: 1997-02-06
; PRIOR APPLICATION NUMBER: US 09/130,273
; PRIOR FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 276
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic peptide
US-10-086-176A-5

Query Match 6.4%; Score 194.5; DB 9; Length 276;
Best Local Similarity 27.3%; Pred. No. 0.00045;
Matches 50; Conservative 20; Mismatches 58; Indels 55; Gaps 5;

QY 263 CTARNAAGLLRADPFLSVQREPARDAAPSIAPAECL--PVOACTGPTSPHLVLMHYD 320
Db 76 CTRDNNANRIK-----TTLQDE-----KPDPCFLEEDPGICRG---YITRIFYN 116
QY 321 PORGCMTPPARCGDGAARGFETYACQACARPG-----YITRIFYN 356
Db 117 NOTKOCERFKYGGCLGNMNNFETLECKNICEDGPNGFVDNYGTQLNAVNNSLTPQSTK 176
QY 357 -----DACVLPVAVGPGRCGWEPMAVSPLLOQCHFPYVGGCEGNGNNFHSRESC 406
Db 177 VPSLEFHPGSPWCLTPADRGICLRANENRFRYNSVIGKCRPFYSGCGGNNFTSKQECCL 236

QY 407 DAC 409
Db 237 RAC 239

RESULT 6
US-09-741-106-9
; Sequence 9, Application US/09741106
; Publication No. US20020197667A1
; GENERAL INFORMATION:
; APPLICANT: Innis, Michael
; APPLICANT: Creasey, Abia
; TITLE OF INVENTION: Chimeric Proteins
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESS: Chilton Corporation
; STREET: 4560 Horton St.
; CITY: Emeryville
; STATE: CA

COUNTRY: USA
ZIP: 94608
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/741,106
FILING DATE: 12-Dec-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/286,521
FILING DATE: 1994-08-05
ATTORNEY/AGENT INFORMATION:
NAME: Saveriede, Paul B.
REGISTRATION NUMBER: 36,914
REFERENCE/DOCKET NUMBER: 0990.001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 510-601-2585
TELEFAX: 510-655-3542
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 276 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 9:
US-09-741-106-9

Query Match 6.4%; Score 194.5; DB 9; Length 276;
Best Local Similarity 27.3%; Pred. No. 0.00045;
Matches 50; Conservative 20; Mismatches 58; Indels 55; Gaps 5;

QY 263 CTARNAAGLLRADPFLSVQREPARDAAPSIAPAECL--PVOACTGPTSPHLVLMHYD 320
Db 76 CTRDNNANRIK-----TTLQDE-----KPDPCFLEEDPGICRG---YITRIFYN 116
QY 321 PORGCMTPPARCGDGAARGFETYACQACARPG-----YITRIFYN 356
Db 117 NOTKOCERFKYGGCLGNMNNFETLECKNICEDGPNGFVDNYGTQLNAVNNSLTPQSTK 176
QY 357 -----DACVLPVAVGPGRCGWEPMAVSPLLOQCHFPYVGGCEGNGNNFHSRESC 406
Db 177 VPSLEFHPGSPWCLTPADRGICLRANENRFRYNSVIGKCRPFYSGCGGNNFTSKQECCL 236

QY 407 DAC 409
Db 237 RAC 239

RESULT 7
US-09-766-778-1
; Sequence 1, Application US/09766778
; Patent No. US20010018204A1
; GENERAL INFORMATION:
; APPLICANT: Papathanassiou, Adonia E.
; APPLICANT: Green, Shawn J.
; TITLE OF INVENTION: Compositions and Methods for Inhibiting
; CELLULAR PROLIFERATION
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESS: Jones & Askev
; STREET: 191 Peachtree Street, 37th Floor
; CITY: Atlanta
; STATE: Georgia
; COUNTRY: U.S.A.
; ZIP: 30303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/766,778
FILING DATE: 22-Jan-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/227,955
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Greene, Jamie L.
REGISTRATION NUMBER: 32,467
REFERENCE/DOCKET NUMBER: 05213-0290
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404) 818-3700
TELEFAX: (404) 818-3799
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 276 amino acids
TYPE: amino acid
STRANDEDNESS: single
MOLECULE TYPE: protein
TOPOLOGY: linear
HYPOTHEICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: Active-site
LOCATION: 2..3
OTHER INFORMATION: /note= "Site of partial phosphorylation"
FEATURE:
NAME/KEY: Active-site
LOCATION: 117..118
OTHER INFORMATION: /note= "Potential site for N-linked glycosylation"
FEATURE:
NAME/KEY: Active-site
LOCATION: 167..168
OTHER INFORMATION: /note= "Potential site for N-linked glycosylation"
FEATURE:
NAME/KEY: Active-site
LOCATION: 228..229
OTHER INFORMATION: /note= "Potential site for N-linked glycosylation"
FEATURE:
NAME/KEY: Domain
LOCATION: 26..76
OTHER INFORMATION: /label= Kuntz-1
FEATURE:
NAME/KEY: Domain
LOCATION: 97..147
OTHER INFORMATION: /label= Kuntz-2
FEATURE:
NAME/KEY: Domain
LOCATION: 189..239
OTHER INFORMATION: /label= Kuntz-3
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-766-778-1
Query Match 6.4%; Score 194.5; DB 10; Length 276;
Best Local Similarity 27.3%; Pred. No. 0.00045;
Matches 50; Conservative 20; Mismatches 58; Indels 55; Gaps 5;
QY 263 CTARNAGLIRADPLSVVQREPARDAAPSPAPAEEL--PDVQACTGPTSPHLVIMHD 320
DB 76 CTEDNARIIRK-----"TTLOOE-----"PPDFCFLEEDPDGICRG---YITRFYVN 116
QY 321 PORGGCTFPARGCDGAAARGFEYEEACQOQACARGPG----- 356
DB 117 NOTKQCRFRFYGGCLGMNMFLEBECKNICEDPGNGFOVDNYGTOLNAVNSLTPOSTR 176

QY 357 -----DACVLPAYQGPCRGWEPRWAYSPLLQOCHPEFYVGGCEGNGNHFHRSCE 406
DB 177 VPSLFEFHGFSWCLTPADRGICRANENRFYNSVIGKCRPFKYSGCCGNGENFTSKQEC 236
QY 407 DAC 409
DB 237 RAC 239
RESULT 8
US-09-827-948-2
Sequence 2, Application US/09827948
Patent No. US20010029034A1
GENERAL INFORMATION:
APPLICANT: Gentz, Reiner, L.
APPLICANT: Hsu, Tsu-An
APPLICANT: Rosen, Craig A.
APPLICANT: Ni, Jian
TITLE OF INVENTION: Tissue Factor Pathway Inhibitor-3
FILE REFERENCE: 1488,1290002
CURRENT APPLICATION NUMBER: US/09/827,948
CURRENT FILING DATE: 2001-04-06
PRIOR APPLICATION NUMBER: US 09/013,896
PRIOR FILING DATE: 1998-01-27
NUMBER OF SEQ ID NOS: 31
SOFTWARE: Patentin version 3.0
SEQ ID NO 2
LENGTH: 252
TYPE: PRT
ORGANISM: Homo sapiens
US-09-827-948-2
Query Match 6.4%; Score 192; DB 10; Length 252;
Best Local Similarity 28.5%; Pred. No. 0.00057;
Matches 45; Conservative 13; Mismatches 54; Indels 46; Gaps 4;
QY 299 CLPDVQACTGPTSPHLVIMHDPORGCMTEPARGCDGAARGFEYEEACQOACA----- 352
DB 38 CL--VSKYVGRCAASMRMYNVTDSQCLFYVGGCGNSNNYLTRECKKCATYTENA 95
QY 353 -----RGPGA-----CVLPAVQGPCRGWEPRWAYSP 381
DB 96 TGLDATSRNADSSVSPAPRQDSEDSHSDMFYEEYCTANAYTGCRASFPWYDVER 155
QY 382 QQCHPFYVGGCEGNGNHFHRSCEDAC-----FVP 412
DB 156 NSCNMFYGGCRGNKNSYRSEACMLRCFRQENPPLP 193

RESULT 9
US-09-808-602-48
Sequence 48, Application US/09808602
Patent No. US2002015115A1
GENERAL INFORMATION:
APPLICANT: Vernet, Corine A
APPLICANT: Fernandes, Elma
APPLICANT: Shimkets, Richard A
APPLICANT: Herman, John L
APPLICANT: Majumder, Kumud
APPLICANT: Mishra, Vishnu
APPLICANT: Mezes, Peter S
APPLICANT: MacDougall, John
TITLE OF INVENTION: No. US2002015115A1el Proteins and Nucleic Acids Encoding Same
FILE REFERENCE: 15966-697 CIP
CURRENT APPLICATION NUMBER: US/09/808,602
CURRENT FILING DATE: 2001-03-14
PRIOR APPLICATION NUMBER: 09/800,198
PRIOR FILING DATE: 2001-03-05
PRIOR APPLICATION NUMBER: 60/186,596
PRIOR FILING DATE: 2000-03-03
NUMBER OF SEQ ID NOS: 114
SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 48
LENGTH: 270
TYPE: PRT
ORGANISM: Mus musculus
US-09-808-602-48

Query Match
Best Local Similarity 26.0%; Pred No. 0.00061;
Matches 81: Conservative 24; Mismatches 138; Indels 68; Gaps 13;

QY 6 PLLPLLLL-RLTSGAGLLPLGSHPGVCPNQLS-----PLMLVDAQSTCERECSR 55
DB 2 PLPLPLLLLPLSLARGLGRDAGRHRPECSPCQQRCPAPSPCPAWISARBE----- 55
QY 56 DDDCAAAEKCCINVCSCVAAFRFGSPAAPTAAACGFCFPCQOQSCDIDWQOPVCR 115
DB 56 -----GCCARCLGAEAGASCGGPRYSRGP-----GLVCASASG-TAPEGGLCV 99
QY 116 CDRCEKEPSFTCASDGLTYNRCYMDAACLRLHLHIVPCKHVLWSPSPGPPETA 175
DB 100 CAQR-----GAVCGSDGRYSSTICAIR---LRARH---APRAHGHLLKARDGPE--- 144
QY 176 RPTGAPVPALYSSPSQAVQVGTASLHCDVSGRPPAVTWKQSHQ---RENLMR 232
DB 145 -----FAPVLMPPRDIHNVGTQVFLSCEVKAVPRTVMKKVKSPEGTBGLDEL 196
QY 233 PQMGNGVYVTSIG-----QLVLYN-ARPEDAGLYCTARNAAGLLRADFPPLSVOR 283
DB 197 PGD-HVNIAVQVRGSGDHEHTTSMILINPLRKEDEGVYCHAMAIAGEASHGTVTYLDL 255
QY 284 EPARDAAPSP 294
DB 256 NRYKSLYSSVP 266

RESULT 10
US-09-925-301-1266
; Sequence 1266, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1266
; LENGTH: 289
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-925-301-1266

Query Match
Best Local Similarity 28.5%; Pred. No. 0.00065;
Matches 45: Conservative 13; Mismatches 54; Indels 46; Gaps 4;

QY 299 CLPDVQACTGPTSPHLVLMHYDPOGCGMTFPARGCDGARGENTYEAOQACA----- 352
DB 56 CL--VSKYVGRGRASHPRMWTNTDSCQLFYGGCDGNSNNLTKEECLKCAITYENA 113
QY 353 -----RGPGDA-----CVLPVQCGPCRGMEPRMAYSPLL 381
DB 114 TGDLATSRNAADSSVPSARRODSEDDHSDMFNEYECTANNAVITGCRASFRMWTYDVER 173
QY 382 QOCHPFTVYGGCEGNGNHNHRSRSCEDAC-----PVP 412
DB 174 NSCNNEIYGGCRGNKNSYRSEACMLRCFROQENPLP 211

RESULT 11
US-09-924-340-48
; Sequence 48, Application US/09924340
; Publication No. US20030027248A1
; GENERAL INFORMATION:
; APPLICANT: Bejanin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAs AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91. US2. REG
; CURRENT APPLICATION NUMBER: US/09/924,340
; CURRENT FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 48
; LENGTH: 291
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE: SIGNAL
; NAME/KEY: SIGNAL
; LOCATION: 1..28
US-09-924-340-48

Query Match
Best Local Similarity 41.7%; Pred. No. 0.0011;
Matches 35: Conservative 11; Mismatches 38; Indels 0; Gaps 0;

QY 326 CMTFPAAGCDGARGFETYEAOQACARGPDACTVPAVQPCRGMEPRMAYSPLLQOCH 385
DB 79 CEEFTYGGCEGNGNHNHRSRSCEDAC 409
DB 139 RPYGGCGLGNNMNFETLECKKNIC 162

RESULT 12
US-09-924-340-52
; Sequence 52, Application US/09924340
; Publication No. US20030027248A1
; GENERAL INFORMATION:
; APPLICANT: Bejanin, Stephane
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAs AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91. US2. REG
; CURRENT APPLICATION NUMBER: US/09/924,340
; CURRENT FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: JPatent
; SEQ ID NO 52
; LENGTH: 291
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE: SIGNAL
; NAME/KEY: SIGNAL
; LOCATION: 1..28
US-09-924-340-52

Db	78	TWEACDDACWIEKVP--KVCRLQVSVDDQCEGSTEKFFENLSSMTCEKFFSGGCHNRI	135
OY	460	EDVLXDDKMGKFLGTR	476
		: : :	
Db	136	ENRPDEATCMGFCAPK	152

Search completed: February 20, 2003, 08:35:54
Job time : 23.6714 secs

This Page Blank (uspto)

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 20, 2003, 08:21:07 : Search time 2.19267 Seconds

(Without alignments)
617.553 Million cell updates/sec

Title: US-09-819-136-2_COPY_299_351

Perfect score: 314
Sequence: 1 CLPDVQACTGPTSPHLVLMH.....RCGDGARGFTYEACQAC 53

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 140259 seqs, 25548876 residues

Total number of hits satisfying chosen parameters: 140259

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: Published_Applications_AA:*
2: /cgn2_6/ptodata/1/pubppa/US08_NEW_PUB pep:*
3: /cgn2_6/ptodata/1/pubppa/PCF_NEW_PUB pep:*
4: /cgn2_6/ptodata/1/pubppa/US06_NEW_PUB pep:*
5: /cgn2_6/ptodata/1/pubppa/US07_NEW_PUB pep:*
6: /cgn2_6/ptodata/1/pubppa/US07_PUBCOMB pep:*
7: /cgn2_6/ptodata/1/pubppa/PCFUS_PUBCOMB pep:*
8: /cgn2_6/ptodata/1/pubppa/US08_PUBCOMB pep:*
9: /cgn2_6/ptodata/1/pubppa/US09_NEW_PUB pep:*
10: /cgn2_6/ptodata/1/pubppa/US09_PUBCOMB pep:*
11: /cgn2_6/ptodata/1/pubppa/US10_NEW_PUB pep:*
12: /cgn2_6/ptodata/1/pubppa/US10_PUBCOMB pep:*
13: /cgn2_6/ptodata/1/pubppa/US60_NEW_PUB pep:*
14: /cgn2_6/ptodata/1/pubppa/US60_PUBCOMB pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	314	100.0	548	10 US-09-819-136-2	Sequence 2, Appl
2	108.5	34.6	576	10 US-09-794-589-2	Sequence 2, Appl
3	94.5	30.1	366	10 US-09-925-301-1175	Sequence 1175, Ap
4	94	29.9	51	9 US-08-741-106-2	Sequence 2, Appl
5	94	29.9	51	10 US-09-827-948-7	Sequence 7, Appl
6	94	29.9	55	10 US-09-904-621-15	Sequence 15, Appl
7	94	29.9	83	9 US-10-125-258-37	Sequence 37, Appl
8	94	29.9	83	9 US-10-125-258-38	Sequence 38, Appl
9	94	29.9	213	9 US-10-086-176A-6	Sequence 6, Appl
10	94	29.9	213	10 US-09-766-778-2	Sequence 2, Appl
11	94	29.9	235	9 US-09-736-457-332	Sequence 332, App
12	94	29.9	235	9 US-09-902-941-332	Sequence 332, App
13	94	29.9	235	9 US-09-849-626-332	Sequence 332, App
14	94	29.9	235	10 US-09-904-621-2	Sequence 2, Appl
15	92	29.3	55	10 US-09-864-761-33588	Sequence 33588, A
16	92	29.3	56	10 US-09-864-761-33763	Sequence 3763, A
17	92	29.3	751	10 US-09-794-927-57	Sequence 57, Appl
18	92	29.3	751	10 US-09-795-847-57	Sequence 57, Appl
19	92	29.3	751	10 US-09-794-743-57	Sequence 57, Appl

20	92	29.3	751	10 US-09-794-748-57	Sequence 57, Appl
21	92	29.3	751	10 US-09-794-925-57	Sequence 57, Appl
22	92	29.3	751	10 US-09-681-442-57	Sequence 57, Appl
23	92	29.3	751	10 US-09-149-718-4	Sequence 4, Appl
24	92	29.3	753	10 US-09-794-927-61	Sequence 61, Appl
25	92	29.3	753	10 US-09-795-847-61	Sequence 61, Appl
26	92	29.3	753	10 US-09-794-743-61	Sequence 61, Appl
27	92	29.3	753	10 US-09-794-748-61	Sequence 61, Appl
28	92	29.3	753	10 US-09-794-925-61	Sequence 61, Appl
29	92	29.3	753	10 US-09-681-442-61	Sequence 61, Appl
30	92	29.3	770	9 US-09-785-215-2	Sequence 2, Appl
31	92	29.3	770	10 US-09-794-927-55	Sequence 55, Appl
32	92	29.3	770	10 US-09-795-847-55	Sequence 55, Appl
33	92	29.3	770	10 US-09-794-743-55	Sequence 55, Appl
34	92	29.3	770	10 US-09-794-748-55	Sequence 55, Appl
35	92	29.3	770	10 US-09-904-987-2	Sequence 2, Appl
36	92	29.3	770	10 US-09-794-925-55	Sequence 55, Appl
37	92	29.3	770	10 US-09-681-442-55	Sequence 55, Appl
38	92	29.3	770	10 US-09-149-718-6	Sequence 6, Appl
39	92	29.3	772	10 US-09-794-927-59	Sequence 59, Appl
40	92	29.3	772	10 US-09-795-847-59	Sequence 59, Appl
41	92	29.3	772	10 US-09-794-743-59	Sequence 59, Appl
42	92	29.3	772	10 US-09-794-748-59	Sequence 59, Appl
43	92	29.3	772	10 US-09-794-925-59	Sequence 59, Appl
44	92	29.3	772	10 US-09-681-442-59	Sequence 59, Appl
45	91	29.0	51	10 US-09-827-948-28	Sequence 28, Appl

ALIGNMENTS

```
RESULT 1
US-09-819-136-2
; Sequence 2, Application US/09819136
; Patent No. US20020146789A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; TITLE OF INVENTION: MULTI-DOMAIN PROTEINASE INHIBITOR
; FILE REFERENCE: 00-25
; CURRENT APPLICATION NUMBER: US/09/819,136
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 60/193,642
; PRIOR FILING DATE: 2000-03-31
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 548
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-819-136-2

Query Match      100.0%; Score 314; DB 10; Length 548;
Best Local Similarity 100.0%; Pred. No. 4.4e-21;
Matches 53; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CLPDVQACTGPTSPHLVLMHTDPORGCGMTFPPARGCGDARGFTYEACQAC 53
Db 299 CLPDVQACTGPTSPHLVLMHTDPORGCGMTFPPARGCGDARGFTYEACQAC 351

RESULT 2
US-09-794-589-2
; Sequence 2, Application US/09794589
; Patent No. US2002004224A1
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: KUNITZ DOMAIN POLYPEPTIDE ZKUN8
; FILE REFERENCE: 00-01
; CURRENT APPLICATION NUMBER: US/09/794,589
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/186,069
; PRIOR FILING DATE: 2000-02-29
```

NUMBER OF SEQ ID NOS: 7
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 2
LENGTH: 576
TYPE: PRT
ORGANISM: Homo sapiens
US-09-794-389-2

Query Match 34.6%; Score 108.5; DB 10; Length 576;
Best Local Similarity 38.5%; Pred. No. 8.4e-06;
Matches 20; Conservative 9; Mismatches 20; Indels 3; Gaps 1;

QY 2 LPDVACGTPSPHLVLMHYDPQRCGCTFPARGCDGARGFETYEACQAC 53
DB 388 LPALQ---GPKAYAPRWAVNSQTQCCSFYGGCGEGNMFESREACEESC 436

RESULT 3

US-09-925-301-1175
Sequence 11/5, Application US/09925301
Patent No. US20020052308A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
FILE REFERENCE: PA106
CURRENT APPLICATION NUMBER: US/09/925,301
CURRENT FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: PCT/US00/05882
PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR FILING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 1694
SOFTWARE: Patent Ver. 2.0
SEQ ID NO 1175
LENGTH: 366
TYPE: PRT
ORGANISM: Homo sapiens
US-09-925-301-1175

Query Match 30.1%; Score 94.5; DB 10; Length 366;
Best Local Similarity 33.3%; Pred. No. 0.00028;
Matches 18; Conservative 8; Mismatches 23; Indels 5; Gaps 1;

QY 5 VOACT-----GPTSPHLVLMHYDPQRCGCTFPARGCDGARGFETYEACQAC 53
DB 298 VAACNLPYVGRAPFQIMAFDAVKGKCVLPFYGGCGGNMFFYSKRECREYC 351

RESULT 4

US-09-741-106-2
Sequence 2, Application US/09741106
Publication No. US20020197667A1
GENERAL INFORMATION:
APPLICANT: Inis, Michael
Creasey, Abia
TITLE OF INVENTION: Chimeric Proteins
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton St.
CITY: Emeryville
STATE: CA
COUNTRY: USA
ZIP: 94608
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/741,106
FILING DATE: 12-Dec-2000
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/286,521
FILING DATE: 1994-08-05
ATTORNEY/AGENT INFORMATION:
NAME: Saveriede, Paul B.
REGISTRATION NUMBER: 36,914
TELECOMMUNICATION INFORMATION:
TELEPHONE: 510-601-2585
TELEFAX: 510-655-3542
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 51 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 2:

Query Match 29.9%; Score 94; DB 9; Length 51;
Best Local Similarity 40.9%; Pred. No. 4e-05;
Matches 18; Conservative 5; Mismatches 21; Indels 0; Gaps 0;

QY 10 GPTSPHLVLMHYDPQRCGCTFPARGCDGARGFETYEACQAC 53
DB 8 GPCRALLRITYIDRYTQSCROFLYGGCGEGNANFFYTWACDDAC 51

RESULT 5

US-09-827-948-7
Sequence 7, Application US/09827948
Patent No. US20010029034A1
GENERAL INFORMATION:
APPLICANT: Gentz, Reiner, L.
APPLICANT: Hsu, Tsu-An
APPLICANT: Rosen, Craig A.
APPLICANT: Ni, Jian
TITLE OF INVENTION: Tissue Factor Pathway Inhibitor-3
FILE REFERENCE: 1488.1290002
CURRENT APPLICATION NUMBER: US/09/827,948
CURRENT FILING DATE: 2001-04-06
PRIOR APPLICATION NUMBER: US 09/013,896
PRIOR FILING DATE: 1998-01-27
NUMBER OF SEQ ID NOS: 31
SOFTWARE: Patent version 3.0
SEQ ID NO 7
LENGTH: 51
TYPE: PRT
ORGANISM: Human
US-09-827-948-7

Query Match 29.9%; Score 94; DB 10; Length 51;
Best Local Similarity 40.9%; Pred. No. 4e-05;
Matches 18; Conservative 5; Mismatches 21; Indels 0; Gaps 0;

QY 10 GPTSPHLVLMHYDPQRCGCTFPARGCDGARGFETYEACQAC 53
DB 8 GPCRALLRITYIDRYTQSCROFLYGGCGEGNANFFYTWACDDAC 51

RESULT 6

US-09-904-621-15
Sequence 15, Application US/09904621
Patent No. US20020098560A1
GENERAL INFORMATION:
APPLICANT: Sprecher, Cindy A.
APPLICANT: Kiesel, Walter
APPLICANT: Foster, Donald C.
TITLE OF INVENTION: NOVEL HUMAN KUNITZ-TYPE INHIBITORS
TITLE OF INVENTION: AND
FILE REFERENCE: 93-14D3

```
; CURRENT APPLICATION NUMBER: US/09/904,621
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/265,627
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-03-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 5,455,338
; PRIOR FILING DATE: EARLIER FILING DATE: 1993-11-05
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 15
; LENGTH: 55
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)...(2)
; OTHER INFORMATION: aa1-2 wherein each amino acid from position 1 to
; OTHER INFORMATION: 2 is individually any amino acid except cysteine.
; NAME/KEY: VARIANT
; LOCATION: (54)...(55)
; OTHER INFORMATION: aa54-55 wherein each amino acid from position 54
; OTHER INFORMATION: to 55 is individually any amino acid except
; OTHER INFORMATION: cysteine.
US-09-904-621-15

Query Match          29.9%; Score 94; DB 10; Length 55;
Best Local Similarity 40.9%; Pred. No. 4,4e-05;
Matches 18; Conservative 5; Mismatches 21; Indels 0; Gaps 0;

Qy 10 GPTSPHLVLMHYDPQRCGCMTPPARCGDGAARGFETYEACQAC 53
Db 10 GPCRALLRLRYDYDRYQSCROFLYGGCEGNANFYTWACDDAC 53

RESULT 7
US-10-125-258-37
; Sequence 37, Application US/10125258
; Publication No. US20030028920A1
; GENERAL INFORMATION:
; APPLICANT: Altier, Daniel J.
; APPLICANT: Herrmann, Rafael
; APPLICANT: Lu, Albert L.
; APPLICANT: McCutchen, Billy F.
; APPLICANT: Prensall, James K.
; APPLICANT: Weaver, Janine L.
; APPLICANT: Wong, James F. H.
; TITLE OF INVENTION: Antimicrobial Polypeptides and Their
; TITLE OF INVENTION: Uses
; FILE REFERENCE: 35718/246215
; CURRENT APPLICATION NUMBER: US/10/125,258
; PRIOR FILING DATE: 2002-04-18
; PRIOR APPLICATION NUMBER: 60/285,355
; PRIOR FILING DATE: 2001-04-20
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 37
; LENGTH: 83
; TYPE: PRT
; ORGANISM: Ostrinia nubilalis
US-10-125-258-37

Query Match          29.9%; Score 94; DB 9; Length 83;
Best Local Similarity 42.2%; Pred. No. 6,7e-05;
Matches 19; Conservative 2; Mismatches 24; Indels 0; Gaps 0;

Qy 9 TGFTSPHLVLMHYDPQRCGCMTPPARCGDGAARGFETYEACQAC 53
Db 33 TGCRGRKRVAFGYDFTDLGCKQCFIYGGCDGNGRNYTLEBCCQAC 77

RESULT 8
US-10-125-258-38
; Sequence 38, Application US/10125258
; Publication No. US20030028920A1
; GENERAL INFORMATION:
; APPLICANT: Altier, Daniel J.
; APPLICANT: Herrmann, Rafael
; APPLICANT: Lu, Albert L.
; APPLICANT: McCutchen, Billy F.
; APPLICANT: Prensall, James K.
; APPLICANT: Weaver, Janine L.
; APPLICANT: Wong, James F. H.
; TITLE OF INVENTION: Antimicrobial Polypeptides and Their
; TITLE OF INVENTION: Uses
; FILE REFERENCE: 35718/246215
; CURRENT APPLICATION NUMBER: US/10/125,258
; PRIOR FILING DATE: 2002-04-18
; PRIOR APPLICATION NUMBER: 60/285,355
; PRIOR FILING DATE: 2001-04-20
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 83
; TYPE: PRT
; ORGANISM: Ostrinia nubilalis
US-10-125-258-38

Query Match          29.9%; Score 94; DB 9; Length 83;
Best Local Similarity 42.2%; Pred. No. 6,7e-05;
Matches 19; Conservative 2; Mismatches 24; Indels 0; Gaps 0;

Qy 9 TGFTSPHLVLMHYDPQRCGCMTPPARCGDGAARGFETYEACQAC 53
Db 33 TGCRGRKRVAFGYDFTDLGCKQCFIYGGCDGNGRNYTLEBCCQAC 77

RESULT 9
US-10-086-176A-6
; Sequence 6, Application US/10086176A
; Patent No. US20020173465A1
; GENERAL INFORMATION:
; APPLICANT: Hambrough, Todd
; APPLICANT: Papathanassiou, Adonia E.
; APPLICANT: Green, Shawn J.
; TITLE OF INVENTION: Compositions and Methods for Inhibiting Cellular Proliferation
; FILE REFERENCE: 05213-0296 43170-266780
; CURRENT APPLICATION NUMBER: US/10/086,176A
; CURRENT FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 09/766,778
; PRIOR FILING DATE: 2001-01-22
; PRIOR APPLICATION NUMBER: US 09/227,955
; PRIOR FILING DATE: 1999-01-11
; PRIOR APPLICATION NUMBER: US 08/796,850
; PRIOR FILING DATE: 1997-02-06
; PRIOR APPLICATION NUMBER: US 09/130,273
; PRIOR FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 213
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic peptide
US-10-086-176A-6

Query Match          29.9%; Score 94; DB 9; Length 213;
Best Local Similarity 40.9%; Pred. No. 0.00018;
Matches 18; Conservative 5; Mismatches 21; Indels 0; Gaps 0;

Qy 10 GPTSPHLVLMHYDPQRCGCMTPPARCGDGAARGFETYEACQAC 53
Db 21 GPCRALLRLRYDYDRYQSCROFLYGGCEGNANFYTWACDDAC 64
```

```
RESULT 10
US-09-766-778-2
; Sequence 2, Application US/09766778
; Patent No. US20010018204A1
; GENERAL INFORMATION:
; APPLICANT: Papathanasiu, Adonia E
; TITLE OF INVENTION: Compositions and Methods for Inhibiting
; Cellular Proliferation
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jones & Askew
; STREET: 191 Peachtree Street, 37th Floor
; CITY: Atlanta
; STATE: Georgia
; COUNTRY: U.S.A.
; ZIP: 30303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/766,778
; FILING DATE: 22-Jan-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/227,955
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Greene, Jamie L.
; REGISTRATION NUMBER: 32,467
; REFERENCE/DOCKET NUMBER: 05213-0290
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (404) 818-3700
; TELEFAX: (404) 818-3799
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 213 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; MOLECULE TYPE: protein
; TOPOLOGY: linear
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: N-terminal
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-766-778-2

Query Match      29.9%; Score 94; DB 10; Length 213;
Best Local Similarity 40.9%; Pred. No. 0.00018;
Matches 18; Conservative 5; Mismatches 21; Indels 0; Gaps 0;

Oy 10 GPTSPHLVLMHYDDPQRCGCMFPARGCDGARGFETYEACQAC 53
|| |::|| | |::|| | |::|| |
Db 21 GPCRALLRYYDRYTQSCRFLYGCGEGNANNFTWEACDDAC 64

RESULT 11
US-09-736-457-332
; Sequence 332, Application US/09736457
; Patent No. US20020168637A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Iodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
```

```
; APPLICANT: Fau, Iqun
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 332
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-736-457-332

Query Match      29.9%; Score 94; DB 9; Length 235;
Best Local Similarity 40.9%; Pred. No. 0.0002;
Matches 18; Conservative 5; Mismatches 21; Indels 0; Gaps 0;

Oy 10 GPTSPHLVLMHYDDPQRCGCMFPARGCDGARGFETYEACQAC 53
|| |::|| | |::|| | |::|| |
Db 43 GPCRALLRYYDRYTQSCRFLYGCGEGNANNFTWEACDDAC 86

RESULT 12
US-09-902-941-332
; Sequence 332, Application US/09902941
; Patent No. US20020172952A1
; GENERAL INFORMATION:
; APPLICANT: Henderson, Robert A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Matsubae, Yoshihiro
; APPLICANT: Johnson, Jeffrey C.
; APPLICANT: Retter, Marc W.
; APPLICANT: Marnerakis, Margarita
; APPLICANT: Carter, Darick
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: McNabb, Andria
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C17
; CURRENT APPLICATION NUMBER: US/09/902,941
; CURRENT FILING DATE: 2001-07-10
; NUMBER OF SEQ ID NOS: 2002
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 332
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-941-332

Query Match      29.9%; Score 94; DB 9; Length 235;
Best Local Similarity 40.9%; Pred. No. 0.0002;
Matches 18; Conservative 5; Mismatches 21; Indels 0; Gaps 0;

Oy 10 GPTSPHLVLMHYDDPQRCGCMFPARGCDGARGFETYEACQAC 53
|| |::|| | |::|| | |::|| |
Db 43 GPCRALLRYYDRYTQSCRFLYGCGEGNANNFTWEACDDAC 86

RESULT 13
US-09-849-626-332
; Sequence 332, Application US/09849626
; Publication No. US20020197669A1
; GENERAL INFORMATION:
; APPLICANT: Bangur, Chaitanya
; APPLICANT: Fanger, Gary
; APPLICANT: Wang, Aijun
; APPLICANT: Wang, Tongtong
; APPLICANT: Switzer, Anne
; APPLICANT: McNeill, Patricia
```

```
; APPLICANT: Clapper, Jonathan
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSTICS OF LUNG CANCER
; FILE REFERENCE: 210121.478C16
; CURRENT APPLICATION NUMBER: US/09/849,626
; NUMBER OF SEQ ID NOS: 1926
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO: 332
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-849-626-332

Query Match          29.9%; Score 94; DB 9; Length 235;
Best Local Similarity 40.9%; Pred. No. 0.0002;
Matches 18; Conservative 5; Mismatches 21; Indels 0; Gaps 0;

QY 10 GPTSPHLVLMHYDPORGCMTPPARGCGAARGFETYEACQAC 53
DB 43 GPCRALLRLRYDYDRYTOSCRPFYGGCGEGNANNFTYWEACDDAC 86

RESULT 14
US-09-904-621-2
; Sequence 2, Application US/09904621
; Patent No. US20020098560A1
; GENERAL INFORMATION:
; APPLICANT: Sprecher, Cindy A.
; APPLICANT: Kistiel, Walter
; APPLICANT: Foster, Donald C.
; TITLE OF INVENTION: NOVEL HUMAN KUNITZ-TYPE INHIBITORS
; TITLE OF INVENTION: AND
; FILE REFERENCE: 93-14D3
; CURRENT APPLICATION NUMBER: US/09/904,621
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/265,627
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-03-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 5,455,338
; PRIOR FILING DATE: EARLIER FILING DATE: 1993-11-05
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO: 2
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-904-621-2

Query Match          29.9%; Score 94; DB 10; Length 235;
Best Local Similarity 40.9%; Pred. No. 0.0002;
Matches 18; Conservative 5; Mismatches 21; Indels 0; Gaps 0;

QY 10 GPTSPHLVLMHYDPORGCMTPPARGCGAARGFETYEACQAC 53
DB 43 GPCRALLRLRYDYDRYTOSCRPFYGGCGEGNANNFTYWEACDDAC 86

RESULT 15
US-09-864-761-33588
; Sequence 33588, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEOTIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aeonica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
```

```
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
; SEQ ID NO: 33588
; LENGTH: 55
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AP000142.1
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 4.5
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 4
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 3.6
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 4.1
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 4.6
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 5.3
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 4
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 4.7
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 3.4
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 3.2
; OTHER INFORMATION: EST HUMAN HIT: AU131304.1, EVALUE 1.00e-29
; OTHER INFORMATION: EST HUMAN HIT: BE175729.1, EVALUE 9.00e-30
; OTHER INFORMATION: SWISSPROT HIT: P05067, EVALUE 1.00e-30
US-09-864-761-33588

Query Match          29.3%; Score 92; DB 10; Length 55;
Best Local Similarity 37.5%; Pred. No. 7.7e-05;
Matches 18; Conservative 4; Mismatches 26; Indels 0; Gaps 0;

QY 6 QACTGPTSPHLVLMHYDPORGCMTPPARGCGAARGFETYEACQAC 53
DB 5 QAGTGPCRAMISRMYFDYTGKCAPEFYGGCGGNRRNFTDEYCAVAC 52

Search completed: February 20, 2003, 08:35:56
Job time : 2.19267 secs
```

This Page Blank (uspto)

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 20, 2003, 08:09:37 : Search time 2.64303 Seconds
(without alignments)
478.688 Million cell updates/sec

Title: US-09-819-136-2_COPY_33_75

Perfect score: 253
Sequence: 1 CPNOLSPNLMWDASTCERE.....DQDCAAAEKCCINVCGLHSC 43

Scoring table:
Gapop 10.0, Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents, AA:*

1: /cgn2_6/ptodata/1/1aa/5A.COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/PCUTS.COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/Backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	82.5	32.6	174	US-09-724-864-56	Sequence 56, Appl
2	82	32.4	42	US-08-761-248B-15	Sequence 15, Appl
3	81	32.0	43	US-08-761-248B-13	Sequence 13, Appl
4	81	32.0	680	US-08-211-430-2	Sequence 2, Appl
5	81	32.0	680	US-08-761-136-1	Sequence 1, Appl
6	77.5	30.6	44	US-08-761-248B-12	Sequence 12, Appl
7	75	29.6	72	US-09-383-586-38	Sequence 38, Appl
8	71.5	28.3	42	US-08-761-248B-9	Sequence 9, Appl
9	68	26.9	127	US-08-162-146-3	Sequence 3, Appl
10	68	26.9	127	US-09-314-127-3	Sequence 3, Appl
11	67.5	26.7	51	US-08-761-248B-14	Sequence 14, Appl
12	66.5	26.3	38	US-08-761-248B-11	Sequence 11, Appl
13	64.5	25.3	37	US-09-326-039-5	Sequence 5, Appl
14	64	25.3	2594	US-08-718-388-7	Sequence 7, Appl
15	64	25.3	5405	US-08-718-388-9	Sequence 9, Appl
16	63	24.9	40	US-09-326-039-7	Sequence 7, Appl
17	63	24.9	42	US-08-761-248B-10	Sequence 10, Appl
18	63	24.9	57	US-08-379-437-1	Sequence 1, Appl
19	63	24.9	57	US-08-379-437-2	Sequence 2, Appl
20	63	24.9	57	US-08-379-437-4	Sequence 4, Appl
21	63	24.9	57	US-08-379-437-6	Sequence 6, Appl
22	63	24.9	57	US-08-379-437-8	Sequence 8, Appl
23	63	24.9	1104	US-08-327-832-5	Sequence 5, Appl
24	63	24.9	1104	US-08-828-584-5	Sequence 5, Appl
25	62	24.5	44	US-08-761-248B-8	Sequence 8, Appl
26	62	24.5	107	US-07-963-538B-4	Sequence 4, Appl
27	62	24.5	132	US-08-304-051-21	Sequence 21, Appl

28	62	24.5	132	5	PCT-US95-11445-21	Sequence 21, Appl
29	62	24.5	133	4	US-09-152-060-75	Sequence 75, Appl
30	61	24.1	95	4	US-09-177-249-273	Sequence 273, App
31	61	24.1	689	4	US-09-177-249-2	Sequence 2, Appl
32	61	24.1	689	4	US-09-061-769A-2	Sequence 2, Appl
33	60	23.7	49	1	US-08-304-051-1	Sequence 1, Appl
34	60	23.7	49	5	PCT-US95-11445-1	Sequence 1, Appl
35	60	23.7	107	3	US-08-483-503A-3	Sequence 4, Appl
36	59.5	23.5	49	2	US-07-963-538B-3	Sequence 3, Appl
37	59.5	23.5	50	2	US-07-963-538B-2	Sequence 2, Appl
38	59.5	23.5	53	2	US-07-963-538B-1	Sequence 1, Appl
39	59.5	23.5	60	3	US-08-483-503A-1	Sequence 1, Appl
40	58	22.9	1198	4	US-09-245-041-131	Sequence 131, App
41	58	22.9	1198	4	US-09-794-236-3	Sequence 3, Appl
42	58	22.9	1350	4	US-09-245-041-17	Sequence 17, Appl
43	58	22.9	1429	4	US-09-245-041-130	Sequence 130, App
44	58	22.9	2787	4	US-09-245-041-15	Sequence 15, Appl
45	58	22.9	4654	4	US-08-476-515A-84	Sequence 84, Appl

ALIGNMENTS

```
RESULT 1
US-09-724-864-56
Sequence 56, Application US/09724864
Patent No. 6380362
GENERAL INFORMATION:
APPLICANT: Watson, James D.
APPLICANT: Murison, James G.
TITLE OF INVENTION: Polynucleotides, polypeptides expressed
FILE REFERENCE: 11000.105001
CURRENT FILING DATE: US/09/724,864
PRIOR APPLICATION NUMBER: 2000-11-28
PRIOR FILING DATE: 1999-12-23
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 56
LENGTH: 174
TYPE: PRT
ORGANISM: Mouse
US-09-724-864-56

Query Match 32.6%; Score 82.5; DB 4; Length 174;
Best Local Similarity 37.2%; Pred. No. 0.021;
Matches 16; Conservative 4; Mismatches 18; Indels 5; Gaps 1;

QY 1 CPNOLSPNLMWDASTCERECSRDQCAAEKCCINVCGLHSC 43
DB 132 CPSVDIPKL-----GLCEDQCVDSDQSGNMCRCRNGCGKMAC 169

RESULT 2
US-08-761-248B-15
Sequence 15, Application US/08761248B
Patent No. 5958735
GENERAL INFORMATION:
APPLICANT: ROWLEY, DAVID R.
TITLE OF INVENTION: UROGENITAL SINUS DERIVED GROWTH
TITLE OF INVENTION: FACTOR NUCLEOTIDE AND AMINO ACID SEQUENCES
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESS: Jenkins & Gilchrist
ADDRESS: 1100 Louisiana, Suite 1800
CITY: Houston
STATE: TX
COUNTRY: USA
ZIP: 77002
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
```

```

; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/761,248B
; FILING DATE: 06-DEC-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/008,348
; FILING DATE: 07-DEC-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Turley, Charles P
; REGISTRATION NUMBER: 35,723
; REFERENCE/DOCKET NUMBER: 34012.6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (713)9513310
; TELEFAX: (713)9513314
;
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 42 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
;
US-08-761-248B-15

Query Match
; 32.4%; Score 82; DB 2; Length 42;
; Best Local Similarity 39.5%; Pred. No. 0.0059;
; Matches 17; Conservative 3; Mismatches 17; Indels 6; Gaps 2;

QY 1 CPNOLSPNLMVDAQSTGECRERSRDQCAAAEKCCINVCGLHSC 43
DB 1 CPKNPPRSI-----GTCVELCSGDQSPNIOKCCSCNGCG-HVC 37

RESULT 3
US-08-761-248B-13
; Sequence 13, Application US/08/61248B
; Patent No. 5958735
; GENERAL INFORMATION:
; APPLICANT: ROWLEY, DAVID R.
; TITLE OF INVENTION: UROGENITAL SINUS DERIVED GROWTH
; TITLE OF INVENTION: FACTOR NUCLEOTIDE AND AMINO ACID SEQUENCES
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jenkins & Gilchrist
; STREET: 1100 Louisiana, Suite 1800
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77002
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/761,248B
; FILING DATE: 06-DEC-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/008,348
; FILING DATE: 07-DEC-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Turley, Charles P
; REGISTRATION NUMBER: 35,723
; REFERENCE/DOCKET NUMBER: 34012.6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (713)9513310
; TELEFAX: (713)9513314
;
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 42 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
;
US-08-761-248B-15
```

```

; LENGTH: 43 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
;
US-08-761-248B-13

Query Match
; 32.0%; Score 81; DB 2; Length 43;
; Best Local Similarity 34.9%; Pred. No. 0.0079;
; Matches 15; Conservative 6; Mismatches 18; Indels 4; Gaps 2;

QY 1 CPNOLSPNLMVDAQSTGECRERSRDQCAAAEKCCINVCGLHSC 43
DB 1 CP---APEKASGFAACVSCEDVNECSGVKKCCSNGCG-HTC 39

RESULT 4
US-08-211-430-2
; Sequence 2, Application US/08211430
; Patent No. 5763166
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: NUCLEIC SEQUENCE OF THE GENE ASSOCIATED WITH
; TITLE OF INVENTION: X CHROMOSOME LINKED KALMANN SYNDROME, CORRESPONDING
; TITLE OF INVENTION: PEPTIDE SEQUENCES, DIAGNOSTIC APPLICATIONS.
; NUMBER OF SEQUENCES: 32
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/211,430
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 680 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; CELL LINE: foetal brain cell
;
US-08-211-430-2

Query Match
; 32.0%; Score 81; DB 1; Length 680;
; Best Local Similarity 34.9%; Pred. No. 0.12;
; Matches 15; Conservative 6; Mismatches 18; Indels 4; Gaps 2;

QY 1 CPNOLSPNLMVDAQSTGECRERSRDQCAAAEKCCINVCGLHSC 43
DB 134 CP---APEKASGFAACVSCEDVNECSGVKKCCSNGCG-HTC 172

RESULT 5
US-08-761-136-1
; Sequence 1, Application US/08761136
; Patent No. 6121231
; GENERAL INFORMATION:
; APPLICANT: PETIT, CHRISTINE
; APPLICANT: SOUSSI-YANTICOCTAS, NADIA
; APPLICANT: HARDELIN, JEAN-PIERRE
; APPLICANT: SARAILH, CATHERINE
; APPLICANT: ROUGON, GENEVIEVE
; APPLICANT: LEGOUTS, RENAUD
; APPLICANT: ARDOUIN, OLIVIER
; APPLICANT: MAZIE, JEAN-CLAUDE
; TITLE OF INVENTION: USE OF KAL PROTEIN AND TREATMENT WITH
; TITLE OF INVENTION: THE KAL PROTEIN IN TREATMENT OF RETINAL, RENAL, NEURAL
; TITLE OF INVENTION: AND NEURAL INJURY
; NUMBER OF SEQUENCES: 3
```


;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MATER & NEUSTADT,
;; ADDRESSEE: P.C.
;; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
;; CITY: ARLINGTON
;; STATE: VA
;; COUNTRY: USA
;; ZIP: 22202
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patent Release #1.0, Version #1.30
;;
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/761,136
;; FILING DATE: 06-DEC-1996
;; CLASSIFICATION: 435
;; ATTORNEY/AGENT INFORMATION:
;; NAME: OBLON, NORMAN F.
;; REGISTRATION NUMBER: 24,618
;; REFERENCE/DOCKET NUMBER: 660-112-0
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 703-413-3000
;; TELEFAX: 703-412-2220
;; INFORMATION FOR SEQ ID NO: 1:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 680 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; US-08-761-136-1

Query Match 32.0%; Score 81; DB 3; Length 680;
Best Local Similarity 34.9%; Pred. No. 0.12;
Matches 15; Conservative 6; Mismatches 18; Indels 4; Gaps 2;

QY 1 CPNQLSPNLMVDAQSTCERECSDODCAAAEKCCINVGHLSC 43
DB 134 CP---APEKASGFPAACVESCVDNCSGVKKCCNSGCG-HTC 172

RESULT 6
US-08-761-248B-12
; Sequence 12, Application US/08761248B
; Patent No. 5958735
; GENERAL INFORMATION:
; APPLICANT: ROWLEY, DAVID R.
; TITLE OF INVENTION: UROGENITAL STIMUS DERIVED GROWTH
; TITLE OF INVENTION: FACTOR NUCLEOTIDE AND AMINO ACID SEQUENCES
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jenkins & Gilchrist
; STREET: 1100 Louisiana, Suite 1800
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77002
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/761,248B
; FILING DATE: 06-DEC-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/008,348
; FILING DATE: 07-DEC-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Turley, Charles P.
; REGISTRATION NUMBER: 35,723

;; REFERENCE/DOCKET NUMBER: 34012.6
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (713)9513310
;; TELEFAX: (713)9513314
;; TELEX:
;; INFORMATION FOR SEQ ID NO: 12:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 44 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
;; US-08-761-248B-12

Query Match 30.6%; Score 77.5; DB 2; Length 44;
Best Local Similarity 33.3%; Pred. No. 0.02;
Matches 13; Conservative 3; Mismatches 16; Indels 7; Gaps 1;

QY 1 CPNQLSPNLMVDAQSTCERECSDODCAAAEKCCINVGCG 39
DB 1 CPKTSGPGI-----CLHGCDSDSDCKEQKCCFPGCG 32

RESULT 7
US-09-383-586-38
; Sequence 38, Application US/09383586
; Patent No. 6242419
; GENERAL INFORMATION:
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Abernethy, Nevyn
; APPLICANT: Orrust, Rene
; APPLICANT: Kumble, Anand
; APPLICANT: Marison, Greg
; TITLE OF INVENTION: Compounds isolated from stromal cells
; TITLE OF INVENTION: and methods for their use
; FILE REFERENCE: 11000.1037c1
; CURRENT APPLICATION NUMBER: US/09/383,586
; CURRENT FILING DATE: 1999-08-26
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 72
; TYPE: PRT
; ORGANISM: Mouse
; US-09-383-586-38

Query Match 29.6%; Score 75; DB 4; Length 72;
Best Local Similarity 33.3%; Pred. No. 0.061;
Matches 16; Conservative 4; Mismatches 22; Indels 6; Gaps 2;

QY 1 CPNQLS-----PNLMVDAQSTCERECSDODCAAAEKCCINVGHLSC 43
DB 21 CPKEFEKPGACPKRPSVSGICVDQCSGDSGCGNKKCCNSGCG-HVC 67

RESULT 8
US-08-761-248B-9
; Sequence 9, Application US/08761248B
; Patent No. 5958735
; GENERAL INFORMATION:
; APPLICANT: ROWLEY, DAVID R.
; TITLE OF INVENTION: UROGENITAL STIMUS DERIVED GROWTH
; TITLE OF INVENTION: FACTOR NUCLEOTIDE AND AMINO ACID SEQUENCES
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jenkins & Gilchrist
; STREET: 1100 Louisiana, Suite 1800
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77002
; COMPUTER READABLE FORM:

```

1  MEDIUM TYPE: Diskette
2  COMPUTER: IBM Compatible
3  OPERATING SYSTEM: DOS
4  SOFTWARE: FASTSEQ for Windows Version 2.0
5  CURRENT APPLICATION DATA:
6  APPLICATION NUMBER: US/08/761,248B
7  FILING DATE: 06-DEC-1996
8  CLASSIFICATION: 435
9  PRIOR APPLICATION DATA:
10 APPLICATION NUMBER: 60/008,348
11 FILING DATE: 07-DEC-1995
12 ATTORNEY/AGENT INFORMATION:
13 NAME: Turley, Charles P
14 REGISTRATION NUMBER: 35,723
15 REFERENCE/DOCKET NUMBER: 34012.6
16 TELECOMMUNICATION INFORMATION:
17 TELEPHONE: (713)9513310
18 TELEFAX: (713)9513314
19 TELEX:
20 INFORMATION FOR SEQ ID NO: 9:
21 SEQUENCE CHARACTERISTICS:
22 LENGTH: 42 amino acids
23 TYPE: amino acid
24 STRANDEDNESS: single
25 TOPOLOGY: linear
26 MOLECULE TYPE: peptide
27
28 US-08-761-248B-9

```

Query Match	28.3%	Score 71.5	DB 2	Length 42
Best Local Similarity	33.3%	Pred. No 0.089		
Matches	13	Conservative	4	Mismatches 11
				Indels 11
				Gaps 1
QY	1	CPNOLSPRLMYDAOSTCEREGSRDDCAAEKCTINVCG	39	
	11	11	11	
	11	11	11	
Db	8	CPARHPVP-----KCTSDYDDCKPRKCCGCGYG	35	

RESULT 9
 US-08-162-146-3
 ; Sequence 3, Application US/08162146
 ; Patent No. 5965788
 ;
 GENERAL INFORMATION:
 APPLICANT: HOEDEBINE, Louis-Marie
 APPLICANT: DEVINOT, Eve
 APPLICANT: THEPOT, Dominique
 TITLE OF INVENTION: Production of a Protein of Interest in
 TITLE OF INVENTION: the Milk of a Transgenic Mammalian
 NUMBER OF SEQUENCES: 3
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Foley & Lardner
 STREET: 3000 K Street, N.W., Suite 500
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20007-5109
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/162,146
 FILING DATE: 10-FEB-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/FR92/00533
 FILING DATE: 12-JUN-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: FR 91/07179
 FILING DATE: 12-JUN-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: WEGNER, Harold C.
 REGISTRATION NUMBER: 25,258

```

? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (202) 672-5300
? TELEFAX: (202) 672-5399
? TELEX: 904136
? INFORMATION FOR SEQ ID NO: 3:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 127 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: protein
? US-08-162-146-3

```

```

QY      1 CENQSLPMLWYDA---QSTCER--ECSKDQDCAAAEKKCINVCGL 40
          |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db      78 CP-----WQDAPMLSQLCELSQCANADIERGRGDKCFKSCAM 115
          |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
          14, Conservative 6, Mismatches 13, Indels 12, Gaps 3;
Query Match 26.9%; Score 68; DB 2; Length 127;
Best Local Similarity 31.1%; Pred. No. 0.65;
Matches 14, Conservative 6, Mismatches 13, Indels 12, Gaps 3;

```

```

RESULT 10
US-09-314-127-3
; Sequence 3, Application US/09314127
; Patent No. 6268545
; GENERAL INFORMATION:
; APPLICANT: HODEBINE, Louis-Marie
; APPLICANT: DEVINOT, Eve
; APPLICANT: THEPOT, Dominique
; TITLE OF INVENTION: Production of a Protein of Interest in
; TITLE OF INVENTION: the Milk of a Transgenic Mammalian
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 3000 K Street, N.W., Suite 500
; City: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/314,127
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/162,146
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: FR 91/07179
; FILING DATE: 12-JUN-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: WEGNER, Harold C.
; REGISTRATION NUMBER: 25,258
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; TELEX: 904136
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 127 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; S-09-314-127-3

```

Query Match	26.98;	Score 68;	DB 4;	Length 127;
Best Local Similarity	31.1%;	Pred. No. 0.65;		
Matches 14;	Conservative	6;	Mismatches 13;	Indels 12;
				Gaps 3;

Oy 1 CPNQSLPMLWDA---QSTCER--ECSRDDCCAAAEKCIINVCGL 40
|| || | :| :| :| :
Db 78 CP-----WVQAPMLSQLCGEISDCANDIECRGDKKCCFSRCAM 115

RESULT 11
US-08-761

```

Sequence 14, Application US/08761248B
Patent No. 5958735
GENERAL INFORMATION:
APPLICANT: ROWLEY, DAVID R.
TITLE OF INVENTION: UROGENITAL SINUS DERIVED GROWTH
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: Jenkins & Gilchrist
STREET: 1100 Louisiana, Suite 1800
CITY: Houston
STATE: TX
COUNTRY: USA
ZIP: 77002
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/761,248B
FILING DATE: 06-DEC-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/008,348
FILING DATE: 07-DEC-1995
ATTORNEY/AGENT INFORMATION:
NAME: Turley, Charles P
REGISTRATION NUMBER: 35,723
REFERENCE/DOCKET NUMBER: 34012.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: (713)9513310
TELEFAX: (713)9513314
TELEX:
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 51 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-761-248B-14

Query Match 26.7%; Score 67.5; DB 2; Length 51;
Best Local Similarity 42.4%; Pred. No. 0.3;
Matches 14; Conservative 4; Mismatches 12; Indels 3; Gaps 2;

QY 13 AOSTCERE--CSRDDCAAAEKCCINVGSLSC 43
| |:: ||| ||| ||| ||| |||
Db 10 AAGPCPKDNCISDSCSGTWKCKCKNGC-IMSC 41

RESULT 12
US-08-761-248B-11
Sequence 11, Application US/08761248B
Patent No. 5958735
GENERAL INFORMATION:
APPLICANT: ROWLEY, DAVID R.
TITLE OF INVENTION: UROGENITAL SINUS DERIVED GROWTH
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: Jenkins & Gilchrist
STREET: 1100 Louisiana, Suite 1800
CITY: Houston
STATE: TX

```

COUNTRY: USA
ZIP: 77002
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/761,248B
FILING DATE: 06-DEC-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/008,348
FILING DATE: 07-DEC-1995
ATTORNEY/AGENT INFORMATION:
NAME: Turley, Charles P
REGISTRATION NUMBER: 35,723
REFERENCE/DOCKET NUMBER: 34012.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: (713)9513310
TELEFAX: (713)9513314
TELEX:
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 38 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-761-248B-11

Query Match

Query Match	26.38;	Score 66.5;	DB 2;	Length 38;
Best Local Similarity	34.28;	Pred. No. 0.29;		
Matches 13;	Conservative 3;	Mismatches 15;	Indels 7;	Gaps 1;

```
QY      1 CPNQLSPNLWDAQSTCERCESRDQDCAAEKCCINVC   38  
        || : | | : || | || |  
Db      1 CPE-----LQADQNCTGECVSDSECDNLKKCSAGC   31
```

RESULT 13

```

US-09-326-039-5
? Sequence 5, Application US/09326039
? Patent No. 6239254
? GENERAL INFORMATION:
? APPLICANT: Conklio, Darrell
? TITLE OF INVENTION: Disulfide Core Polypeptides
? FILE REFERENCE: 98-13
? CURRENT APPLICATION NUMBER: US/09/326,039
? CURRENT FILING DATE: 1999-06-04
? EARLIER APPLICATION NUMBER: 60/088,136
? EARLIER FILING DATE: 1998-06-04
? NUMBER OF SEQ ID NOS: 23
? SOFTWARE: fastseq for Windows Version 3.0
? SEQ ID NO 5
? LENGTH: 37
? TYPE: PRT
? ORGANISM: Homo sapiens
? US-09-326-039-5

```

Query Match	25.5%;	Score 64.5;	DB 4;	Length 37;
Best Local Similarity	42.9%;	Pred. No. 0.48;		
Matches 12;	Conservative 2;	Mismatches 13;	Indels 1;	Gaps 1;

Qy 16 TCERECSRQDDCAAAEKCCINVCGLHSC 43
|||:|||||
Db 8 TCVELCTGDDWDCNPGDHCVSNGCG-HEC 34

RESULT 14
US-08-718-388-7
; Sequence 7, Application US/08718388
; Patent No. 6271362

```

; GENERAL INFORMATION:
; APPLICANT: MORIKAWA, MINORU
; APPLICANT: HARADA, NAOKI
; TITLE OF INVENTION: GENE ENCODING IGG Fc REGION-BINDING
; TITLE OF INVENTION: PROTEIN
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BIRCH, STEWART, KOLASCH AND BIRCH
; STREET: PO BOX 747
; CITY: FALLS CHURCH
; STATE: VA
; COUNTRY: USA
; ZIP: 22040-0747
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/718,388
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: MURPHY JR, GERALD M
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 0230-111
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 205-8000
; TELEFAX: (703) 205-8050
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2594 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-718-388-7

Query Match      25.3%; Score 64; DB 4; Length 2594;
Best Local Similarity 35.3%; Pred. No. 35;
Matches 18; Conservative 5; Mismatches 16; Indels 12; Gaps 3;

QY 4 QLSPNLWVDAOSTCERCES-----RD-ODCAAERKCCINVCGLHSC 43
Db 807 QLAGGEVWADLCQRCTCNGATHQVTCRDKQSCPAGERCSVO-NGLLGC 856

RESULT 15
US-08-718-388-9
; Sequence 9, Application US/08718388
; Patent No. 6271362
; GENERAL INFORMATION:
; APPLICANT: MORIKAWA, MINORU
; APPLICANT: HARADA, NAOKI
; TITLE OF INVENTION: GENE ENCODING IGG Fc REGION-BINDING
; TITLE OF INVENTION: PROTEIN
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BIRCH, STEWART, KOLASCH AND BIRCH
; STREET: PO BOX 747
; CITY: FALLS CHURCH
; STATE: VA
; COUNTRY: USA
; ZIP: 22040-0747
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/718,388
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:

```

```

; NAME: MURPHY JR, GERALD M
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 0230-111
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 205-8000
; TELEFAX: (703) 205-8050
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5405 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-718-388-9

Query Match      25.3%; Score 64; DB 4; Length 5405;
Best Local Similarity 35.3%; Pred. No. 71;
Matches 18; Conservative 5; Mismatches 16; Indels 12; Gaps 3;

QY 4 QLSPNLWVDAOSTCERCES-----RD-ODCAAERKCCINVCGLHSC 43
Db 807 QLAGGEVWADLCQRCTCNGATHQVTCRDKQSCPAGERCSVO-NGLLGC 856

Search completed: February 20, 2003, 08:22:28
Job time : 4.64303 secs

```

GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 20, 2003, 08:21:07 ; Search time 1.77896 Seconds

(without alignments)
617.553 Million cell updates/sec

Title: US-09-819-136-2_COPY_33_75

Perfect score: 253
Sequence: 1 CPNQLSPNLWDAOSTCERE.....DQCAAEKCCINVCGLHSC 43

Scoring table:

BL0SUM62
Gapop 10.0 , Gapext 0.5

Searched: 140259 seqs, 25548876 residues

Total number of hits satisfying chosen parameters: 140259

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published_Applications_AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
- 6: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
- 7: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep:*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
- 9: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep:*
- 10: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
- 11: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
- 12: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*
- 13: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
- 14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	253	100.0	548	10	US-09-819-136-2
2	188	74.3	576	10	US-09-794-589-2
3	82	32.4	60	10	US-09-790-264-59
4	81	32.0	679	12	US-10-119-714-1
5	80.5	31.8	74	10	US-09-790-264-58
6	75	29.6	59	10	US-09-790-264-67
7	75	29.6	72	10	US-09-823-038A-38
8	75	29.6	76	10	US-09-790-264-56
9	72.5	28.7	124	9	US-09-924-340-42
10	72.5	28.7	124	9	US-09-924-600A-42
11	72.5	28.7	137	10	US-09-925-300-1361
12	69	27.3	58	9	US-09-829-155C-3
13	69	27.3	79	9	US-09-829-155C-2
14	66	26.1	49	10	US-09-864-761-34921
15	66	26.1	893	10	US-09-852-453-4
16	65	25.7	117	10	US-09-852-659A-119
17	64.5	25.5	37	10	US-09-790-264-64
18	64.5	25.5	37	10	US-09-757-908A-5
19	64.5	25.5	61	10	US-09-790-264-54

20	64.5	25.5	131	10	US-09-790-264-61	Sequence 61, App1
21	64	25.3	111	9	US-09-922-598-345	Sequence 345, App
22	64	25.3	111	9	US-09-989-293A-345	Sequence 345, App
23	64	25.3	111	9	US-09-988-735-345	Sequence 345, App
24	64	25.3	111	9	US-09-990-444-345	Sequence 345, App
25	64	25.3	111	9	US-09-989-730-345	Sequence 345, App
26	64	25.3	111	9	US-09-990-436-345	Sequence 345, App
27	64	25.3	111	9	US-09-991-181-345	Sequence 345, App
28	64	25.3	111	9	US-09-993-687-345	Sequence 345, App
29	64	25.3	111	9	US-09-988-734-345	Sequence 345, App
30	64	25.3	111	9	US-09-997-653-345	Sequence 345, App
31	64	25.3	111	9	US-09-993-667-345	Sequence 345, App
32	64	25.3	111	9	US-09-990-438-345	Sequence 345, App
33	64	25.3	111	9	US-09-992-562-345	Sequence 345, App
34	64	25.3	111	9	US-09-997-438-345	Sequence 345, App
35	64	25.3	111	9	US-09-997-666-345	Sequence 345, App
36	64	25.3	111	10	US-09-989-722-345	Sequence 345, App
37	64	25.3	111	10	US-09-989-723-345	Sequence 345, App
38	64	25.3	111	10	US-09-989-279-345	Sequence 345, App
39	64	25.3	111	10	US-09-989-727-345	Sequence 345, App
40	64	25.3	111	10	US-09-989-731-345	Sequence 345, App
41	64	25.3	111	10	US-09-989-732-345	Sequence 345, App
42	64	25.3	111	10	US-09-991-073-345	Sequence 345, App
43	64	25.3	111	10	US-09-990-442-345	Sequence 345, App
44	64	25.3	111	10	US-09-991-163-345	Sequence 345, App
45	64	25.3	111	10	US-09-993-604-345	Sequence 345, App

ALIGNMENTS

RESULT 1
US-09-819-136-2
; Sequence 2, Application US/09819136
; Patent No. US20020146789A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Geo. Zeren
; TITLE OF INVENTION: MULTI-DOMAIN PROTEINASE INHIBITOR
; FILE REFERENCE: 00-25
; CURRENT APPLICATION NUMBER: US/09/819,136
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 60/193,642
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 548
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-819-136-2

Query Match 100.0%; Score 253; DB 10; Length 548;
Best Local Similarity 100.0%; Pred. No. 4,4e-21;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CPNQLSPNLWDAOSTCERECSRDDCAAEKCCINVCGLHSC 43
DB 33 CPNQLSPNLWDAOSTCERECSRDDCAAEKCCINVCGLHSC 75

RESULT 2
US-09-794-589-2
; Sequence 2, Application US/09794589
; Patent No. US2002004224A1
; GENERAL INFORMATION:
; APPLICANT: Shepard, Paul O.
; TITLE OF INVENTION: KUNITZ DOMAIN POLYPEPTIDE ZKUN8
; FILE REFERENCE: 00-01
; CURRENT APPLICATION NUMBER: US/09/794,589
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/186,069
; PRIOR FILING DATE: 2000-02-29

NUMBER OF SEQ ID NOS: 7
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 2
LENGTH: 576
TYPE: PRT
ORGANISM: Homo sapiens
US-09-794-389-2

Query Match 74.3%; Score 188; DB 10; Length 576;
Best Local Similarity 69.8%; Pred. No. 7,9e-14;
Matches 30; Conservative 3; Mismatches 10; Indels 0; Gaps 0;

QY 1 CPNOLSPNLMWDASTCERECSDODCAAEKCCINVCGLHSC 43
Db 46 CPNDKPNLMWDASTCERECETDDECEYKCCPNVCGTSC 88

RESULT 3
US-09-790-264-59

Sequence 59, Application US/09790264
Patent No. US20020028508A1
GENERAL INFORMATION:

APPLICANT: Holtzman, Douglas A.
APPLICANT: McCarthy, Sean A.
TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING
TITLE OF INVENTION: PROGNASTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER
FILE REFERENCE: 07334-322001
CURRENT APPLICATION NUMBER: US/09/790,264
PRIOR APPLICATION NUMBER: US 09/065,661
PRIOR FILING DATE: 1998-04-23
PRIOR APPLICATION NUMBER: US 09/298,531
PRIOR FILING DATE: 1999-04-23
PRIOR APPLICATION NUMBER: US 09/065,363
PRIOR FILING DATE: 1998-04-23
PRIOR APPLICATION NUMBER: US 09/337,930
PRIOR FILING DATE: 1999-06-22
PRIOR APPLICATION NUMBER: US 09/102,705
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: US 09/363,630
PRIOR FILING DATE: 1999-07-29
PRIOR APPLICATION NUMBER: US 09/124,538
PRIOR FILING DATE: 1998-07-29
NUMBER OF SEQ ID NOS: 68
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 59
LENGTH: 60
TYPE: PRT
ORGANISM: Rattus norvegicus
US-09-790-264-59

Query Match 32.4%; Score 82; DB 10; Length 60;
Best Local Similarity 39.5%; Pred. No. 0.006;
Matches 17; Conservative 3; Mismatches 17; Indels 6; Gaps 2;

QY 1 CPNOLSPNLMWDASTCERECSDODCAAEKCCINVCGLHSC 43
Db 19 CPKNPPRSI-----GTCEVLCSGDSCPNIOKCCSNGCG-HVC 55

RESULT 4
US-10-119-714-1

Sequence 1, Application US/10119714
Patent No. US20020123467A1
GENERAL INFORMATION:

APPLICANT: PETTY, CHRISTINE
APPLICANT: SOUSSI-YANICOSTAS, NADIA
APPLICANT: HARDELIN, JEAN-PIERRE
APPLICANT: SARAILH, CATHERINE
APPLICANT: ROUGON, GENEVIEVE
APPLICANT: LEGOUIS, RENAUD

APPLICANT: ARDOUIN, OLIVIER
APPLICANT: MAZIE, JEAN-CLAUDE
TITLE OF INVENTION: THERAPEUTIC COMPOSITION COMPRISING KAL PROTEIN AND USE
TITLE OF INVENTION: OF THE KAL PROTEIN FOR THE TREATMENT OF RETINAL, RENAL,
FILE REFERENCE: 0660-0151-0XPCF
CURRENT APPLICATION NUMBER: US/10/119,714
PRIOR FILING DATE: 2002-04-11
PRIOR APPLICATION NUMBER: US/09/319,236
PRIOR FILING DATE: 1999-09-02
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 679
TYPE: PRT
ORGANISM: Homo sapiens
US-10-119-714-1

Query Match 32.0%; Score 81; DB 12; Length 679;
Best Local Similarity 34.9%; Pred. No. 0.073;
Matches 15; Conservative 6; Mismatches 18; Indels 4; Gaps 2;

QY 1 CPNOLSPNLMWDASTCERECSDODCAAEKCCINVCGLHSC 43
Db 134 CP---APEKASGFMAACVESCVDNECSGVKCCSNGCG-HTC 172

RESULT 5
US-09-790-264-58

Sequence 58, Application US/09790264
Patent No. US20020028508A1
GENERAL INFORMATION:

APPLICANT: Holtzman, Douglas A.
APPLICANT: McCarthy, Sean A.
TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING
TITLE OF INVENTION: PROGNASTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER
FILE REFERENCE: 07334-322001
CURRENT APPLICATION NUMBER: US/09/790,264
CURRENT FILING DATE: 2001-02-21
PRIOR APPLICATION NUMBER: US 09/065,661
PRIOR FILING DATE: 1998-04-23
PRIOR APPLICATION NUMBER: US 09/298,531
PRIOR FILING DATE: 1999-04-23
PRIOR APPLICATION NUMBER: US 09/065,363
PRIOR FILING DATE: 1998-04-23
PRIOR APPLICATION NUMBER: US 09/337,930
PRIOR FILING DATE: 1999-06-22
PRIOR APPLICATION NUMBER: US 09/102,705
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: US 09/363,630
PRIOR FILING DATE: 1999-07-29
PRIOR APPLICATION NUMBER: US 09/124,538
PRIOR FILING DATE: 1998-07-29
NUMBER OF SEQ ID NOS: 68
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 58
LENGTH: 74
TYPE: PRT
ORGANISM: Mus musculus
US-09-790-264-58

Query Match 31.8%; Score 80.5; DB 10; Length 74;
Best Local Similarity 46.4%; Pred. No. 0.011;
Matches 13; Conservative 4; Mismatches 10; Indels 1; Gaps 1;

QY 16 TCERECSDODCAAEKCCINVCGLHSC 43
Db 43 TCDERTGTGSGSGNMKCCSNGCG-HAC 69

RESULT 6

```

US-09-790-264-67
; Sequence 67, Application US/09790264
; Patent No. US20020028508A1
; GENERAL INFORMATION:
; APPLICANT: Holtzman, Douglas A.
; APPLICANT: Goodearl, Andrew D.J.
; APPLICANT: McCarthy, Sean A.
; TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING
; TITLE OF INVENTION: PROS
; TITLE OF INVENTION: PROS
; FILE REFERENCE: 07334-322001
; CURRENT APPLICATION NUMBER: US/09/790,264
; CURRENT FILING DATE: 2001-02-21
; PRIOR APPLICATION NUMBER: US 09/065,661
; PRIOR FILING DATE: 1998-04-23
; PRIOR APPLICATION NUMBER: US 09/298,531
; PRIOR FILING DATE: 1999-04-23
; PRIOR APPLICATION NUMBER: US 09/065,363
; PRIOR FILING DATE: 1998-04-23
; PRIOR APPLICATION NUMBER: US 09/337,930
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/102,705
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: US 09/363,630
; PRIOR FILING DATE: 1999-07-29
; PRIOR APPLICATION NUMBER: US 09/124,538
; PRIOR FILING DATE: 1998-07-29
; NUMBER OF SEQ ID NOS: 68
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 59
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-790-264-67

```

Query Match	29.6%	Score 75;	DB 10;	Length 59;
Best Local Similarly	33.3%	Pred. No. 0.036;		
Matches 16; Conservative	4;	Mismatches 22;	Indels 6;	Gaps 2;

Oy 1 CPNDLS-----PNLMVDAQSTCERECSSRDQDCAAAEKCICINVCGLHSC 43
 || : | : || | | | | | | |
Db 8 CPEFEKPGACPKPSPESVGICVDQCSDGSGCPGNNKCCNSCG-HYC 54

```

US-09-823-038A-38
Sequence 38, Application US/09923038A
Patent No. US20020058335A1
GENERAL INFORMATION:
APPLICANT: Strachan, Lorna
APPLICANT: Sleeman, Matthew
APPLICANT: Abernethy, Nevlin
APPLICANT: Onrust, Renee
APPLICANT: Kumble, Anand
APPLICANT: Murilson, Greg
TITLE OF INVENTION: Compositions Isolated From Stromal Cells
FILE REFERENCE: 11000.103703
CURRENT APPLICATION NUMBER: US/09/823,038A
CURRENT FILING DATE: 2001-07-09
NUMBER OF SEQ ID NOS: 61
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 38
LENGTH: 72
TYPE: PRT
ORGANISM: Mouse
US-09-823-038A-38

```

Query Match 29.6%, Score 75; DB 10; Length 72;
Best Local Similarity 33.3%; Pred. No. 0.043;
Matches 16; Conservative 4; Mismatches 22; Indels 6; Gaps 2;
1 CPNOLS-----PNLWVDAOSTCERCRCRDODCAAKECCINVCGLHSC 43

Db 21 CPKEFEKPGACPKPSPESVGICVDQCGSDGSCPGNMKCCSNSCG-HVC 67

RESULT 8
US-09-790-264-56
; Sequence 56, Application US/09790264

GENERAL INFORMATION:
APPLICANT: Holtzman, Douglas A.
APPLICANT: Goodearl, Andrew D.J.
APPLICANT: McCarthy, Sean A.
TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING
TITLE OF INVENTION: PROGNOSTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER

```

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977
978
979
980
981
982
983
984
985
986
987
988
989
990
991
992
993
994
995
996
997
998
999
1000
1001
1002
1003
1004
1005
1006
1007
1008
1009
1010
1011
1012
1013
1014
1015
1016
1017
1018
1019
1020
1021
1022
1023
1024
1025
1026
1027
1028
1029
1030
1031
1032
1033
1034
1035
1036
1037
1038
1039
1040

```

```

; LENGTH: 76
; TYPE: PRT
; ORGANISM: Mus musculus

```

```

; NAME/KEY: SIGNAL
; LOCATION: (1)...(17)
US-09-790-264-56

```

Query Match	29.68;	Score 75;	DB 10;	Length 76;
Best Local Similarity	33.38;	Pred. No.	0.045;	
Matches 16;	Conservative	4;	Mismatches	22;
			Indels	6;
			Gaps	2;

```

Qy 1 CPNQLS-----PNLWVDAQSTCERECRSRDQDCAAAEKCICINVGJHSC 43
    ||: | :||| | ||| ||| |
Db 25 CPKEFEKPGACPKPSPESVGICVDQCSGDGSCPGNMKCCSNSCG-HYC 71

```

RESULT 9
US-09-924-340-42
; Sequence 42, Application US/09924340
; Publication No. US20030027248A1

1 APPLICANT: Tanaka, Hiroaki
 2 TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
 3 FILE REFERENCE: 91.052. REG
 4 CURRENT APPLICATION NUMBER: US/09/934,340
 5 PRIORITY FILING DATE: 2001-08-06
 6 PRIOR APPLICATION NUMBER: US 60/305,456
 7 PRIOR FILING DATE: 2001-07-13
 8 PRIOR APPLICATION NUMBER: US 60/302,277
 9 PRIOR FILING DATE: 2001-06-29
 10 PRIOR APPLICATION NUMBER: US 60/298,698
 11 PRIOR FILING DATE: 2001-06-15
 12 PRIOR APPLICATION NUMBER: US 60/293,574
 13 PRIOR FILING DATE: 2001-05-25
 14 NUMBER OF SEQ ID NOS: 112
 15 SOFTWARE: Patent

SEQ ID NO 42
LENGTH: 124
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SIGNAL
LOCATION: 1..30
US-09-924-340-42

Query Match
Best Local Similarity 34.9%; Pred. No. 0.13; Length 124;
Matches 15; Conservative 2; Mismatches 23; Indels 3; Gaps 1;

OY 1 CPNOLSPNLWVDAQSTCERCSRDQCAAEKCCINVCGLHSC 43
DB 80 CP---QVNIINFPOLGLCRDQCQVDSCPGQMKCCRNCGCKVSC 119

RESULT 10

US-09-992-600A-42
; Sequence 42, Application US/09992600A
; Publication No. US20030027161A1
; GENERAL INFORMATION:
; APPLICANT: Benjamin, Stephane
; TITLE OF INVENTION: HUMAN CNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91.US4.DIV
; CURRENT APPLICATION NUMBER: US/09/992,600A
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 09/924,340
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: PCT/IB01/01715
; PRIOR FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: JPatent
; SEQ ID NO 42
; LENGTH: 124
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: 1..30
US-09-992-600A-42

Query Match
Best Local Similarity 28.7%; Score 72.5; DB 9; Length 124;
Matches 15; Conservative 2; Mismatches 23; Indels 3; Gaps 1;

OY 1 CPNOLSPNLWVDAQSTCERCSRDQCAAEKCCINVCGLHSC 43
DB 80 CP---QVNIINFPOLGLCRDQCQVDSCPGQMKCCRNCGCKVSC 119

RESULT 11

US-09-925-300-1361
; Sequence 1361, Application US/09925300
; Patent No. US20020151681A1
; GENERAL INFORMATION:
; APPLICANT: Craig Rosen,
; APPLICANT: Steve Ruben
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA101
; CURRENT APPLICATION NUMBER: US/09/925,300
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05988

; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1890
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1361
; LENGTH: 137
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-925-300-1361

Query Match
Best Local Similarity 28.7%; Score 72.5; DB 10; Length 137;
Matches 15; Conservative 2; Mismatches 23; Indels 3; Gaps 1;

OY 1 CPNOLSPNLWVDAQSTCERCSRDQCAAEKCCINVCGLHSC 43
DB 93 CP---QVNIINFPOLGLCRDQCQVDSCPGQMKCCRNCGCKVSC 132

RESULT 12

US-09-829-155C-3
; Sequence 3, Application US/09829155C
; Patent No. US20020155561A1
; GENERAL INFORMATION:
; APPLICANT: Thayer, Edward C.
; TITLE OF INVENTION: Mammalian Disulfide Core Protein-4
; FILE REFERENCE: 00-29
; CURRENT APPLICATION NUMBER: US/09/829,155C
; PRIOR FILING DATE: 2002-04-03
; PRIOR APPLICATION NUMBER: 60/196,230
; PRIOR FILING DATE: 2000-04-10
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 58
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-829-155C-3

Query Match
Best Local Similarity 27.3%; Score 69; DB 9; Length 58;
Matches 15; Conservative 3; Mismatches 18; Indels 4; Gaps 1;

OY 4 QLSPLNLWVDAQSTCERCSRDQCAAEKCCINVCGLHSC 39
DB 12 QLSPEIKVCQQPKLYLCKHLCESHRDCQANNICSTYCG 51

RESULT 13

US-09-829-155C-2
; Sequence 2, Application US/09829155C
; Patent No. US20020155561A1
; GENERAL INFORMATION:
; APPLICANT: Thayer, Edward C.
; TITLE OF INVENTION: Mammalian Disulfide Core Protein-4
; FILE REFERENCE: 00-29
; CURRENT APPLICATION NUMBER: US/09/829,155C
; PRIOR FILING DATE: 2002-04-03
; PRIOR APPLICATION NUMBER: 60/196,230
; PRIOR FILING DATE: 2000-04-10
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 79
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-829-155C-2

Query Match
Best Local Similarity 27.3%; Score 69; DB 9; Length 79;
Matches 15; Conservative 3; Mismatches 18; Indels 4; Gaps 1;

This Page Blank (uspto)

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 20, 2003, 08:09:37 : Search time 8.4208 Seconds
(without alignments)
478.688 Million cell updates/sec

Title: US-09-819-136-2_COPY_412_548

Perfect score: 704
Sequence: 1 PRTPCRACRNRKSLALSLC.....KKILELEKQACELNRPD 137

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents, AA:*
1: /cgn2_6/ptodata/1/1aa/5A.COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/PCITUS.COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/Backfile1.pep:*

Pred. NO. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	92.5	13.1	317	4	US-08-937-067-6 Sequence 6, Appli
2	79.5	11.3	411	2	US-08-318-837-7 Sequence 7, Appli
3	79.5	11.3	415	4	US-09-032-5523-2 Sequence 2, Appli
4	79.5	11.2	295	4	US-08-937-067-2 Sequence 2, Appli
5	72.5	10.3	292	4	US-09-323-872A-35 Sequence 35, Appli
6	72.5	10.3	334	6	5290690-11 Patent No. 5290690
7	70.5	10.0	754	4	US-09-276-400-8 Sequence 8, Appli
8	70.5	10.0	754	4	US-09-448-076-8 Sequence 8, Appli
9	70.5	10.0	754	4	US-09-702-572-8 Sequence 8, Appli
10	69.5	9.9	311	2	US-08-318-837-9 Sequence 9, Appli
11	68.5	9.7	1452	4	US-09-127-227-2 Sequence 2, Appli
12	68	9.7	449	2	US-08-839-008-2 Sequence 2, Appli
13	68	9.7	449	2	US-08-839-008-9 Sequence 2, Appli
14	66	9.4	431	4	US-09-134-001C-4257 Sequence 4257, Ap
15	65.5	9.3	899	1	US-08-365-689-2 Sequence 2, Appli
16	65.5	9.3	899	1	US-08-145-118A-2 Sequence 2, Appli
17	65.5	9.3	933	5	US-07-747-781-2 Sequence 2, Appli
18	65.5	9.3	933	5	PCR-US92-06888-2 Sequence 2, Appli
19	65	9.2	2938	5	US-09-00198-3 Sequence 3, Appli
20	65	9.2	4545	2	US-08-804-227C-14 Sequence 14, Appli
21	65	9.2	4550	2	US-08-804-227C-8 Sequence 8, Appli
22	65	9.2	4550	2	US-08-804-198-2 Sequence 2, Appli
23	64	9.1	603	3	US-08-482-677-8 Sequence 8, Appli
24	64	9.1	1045	1	US-08-452-083-2 Sequence 2, Appli
25	63	8.9	236	4	US-09-049-672A-13 Sequence 13, Appli
26	63	8.9	460	4	US-09-647-540A-2 Sequence 2, Appli
27	63	8.9	529	1	US-08-152-019A-40 Sequence 40, Appli

28	63	8.9	529	3	US-08-650-599A-3 Sequence 3, Appli
29	63	8.9	529	4	US-09-490-517-3 Sequence 3, Appli
30	62.5	8.9	685	4	US-09-031-563-21 Sequence 21, Appli
31	62.5	8.9	685	4	US-09-392-277-21 Sequence 21, Appli
32	62.5	8.9	740	4	US-09-624-693A-15 Sequence 15, Appli
33	62.5	8.9	744	2	US-08-462-080B-2 Sequence 2, Appli
34	62.5	8.9	744	3	US-08-462-090-2 Sequence 2, Appli
35	62.5	8.9	744	3	US-08-463-461-2 Sequence 2, Appli
36	62.5	8.9	1055	3	US-09-031-563-27 Sequence 27, Appli
37	62.5	8.9	1055	4	US-09-392-277-27 Sequence 27, Appli
38	62.5	8.9	1077	4	US-09-412-210-1 Sequence 1, Appli
39	62.5	8.9	1315	3	US-09-031-563-2 Sequence 2, Appli
40	62.5	8.9	1315	3	US-09-031-563-25 Sequence 25, Appli
41	62.5	8.9	1315	4	US-09-293-505-10 Sequence 10, Appli
42	62.5	8.9	1315	4	US-09-392-277-2 Sequence 2, Appli
43	62.5	8.9	1315	4	US-09-392-277-25 Sequence 25, Appli
44	62	8.8	377	4	US-09-420-211-2 Sequence 2, Appli
45	62	8.8	4472	2	US-08-804-227C-2 Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-08-937-067-6

Sequence 6, Application US/08937067
Patent No. 643315

GENERAL INFORMATION:

APPLICANT: Umansky, Samuil

TITLE OF INVENTION: A FAMILY OF GENES ENCODING

TITLE OF INVENTION: APOPTOSIS-RELATED PEPTIDES, PEPTIDES ENCODED THEREBY AND

NUMBER OF SEQUENCES: 19

CORRESPONDENCE ADDRESSES:

ADDRESSEE: MORRISON & FOERSTER

STREET: 755 Page Mill Road

CITY: Palo Alto

STATE: CA

COUNTRY: USA

ZIP: 94304-1018

COMPUTER READABLE FORM:

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/937,067

FILING DATE:

CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:

NAME: Lehnhardt, Susan K.

REGISTRATION NUMBER: 33,943

REFERENCE/DOCKET NUMBER: 23647-20018.00

TELECOMMUNICATION INFORMATION:

TELEPHONE: (650) 813-5600

TELEFAX: (650) 494-0792

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 317 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-937-067-6

Query Match

Best Local Similarity

Matches

37; Conservative

18; Mismatches

76; Indels

7; Gaps

4;

DB

1 PRTPCRACRNRKSLALSLCSDFAIVGRITVELEPEAAGIARVALDYLKDKM 57

176 PVTKICAGCEMEHSDGLMEQKMSDFVVKMKRIKIKENGDRKLTGAGKKKLKPDP- 234

1 APPLICANT: Melkonyan, Samuel
 2 APPLICANT: Melkonyan, Hovsep
 3 TITLE OF INVENTION: A FAMILY OF GENES ENCODING
 4 TITLE OF INVENTION: APOPTOSIS-RELATED PEPTIDES;
 5 TITLE OF INVENTION: METHODS OF USE THEREOF
 6 NUMBER OF SEQUENCES: 19
 7
 8 CORRESPONDENCE ADDRESS:
 9 ADDRESS: MORRISON & FORSTER

```

Oy      58  GKLFGLTGYLEVYTLTSGMD-----WACPCPMNTAGDDP-----LVIM 93
           |         |         |         |         |         |         |
Db      112  --IFERTTSGGGVTLTSGGEVLQMAQEPATREFLORLRMGVSCALETGADAPASKLRLPAKLC 169
           |         |         |         |         |         |         |
Oy      94  GEVRDGVAVLDAGSYVRAASEKRYKIKELLEKQACELLN 133
           |         |         |         |         |         |         |
Db      170  DEVEFLDKIMDA-TQARDVYKKNLPRLVLEENLRLLVSEGVN 208
           |         |         |         |         |         |         |

RESULT 6
5290690-11
: Patent No. 5290690
: APPLICANT: MRABET, NADIR; LASTERS, IGNACE; STRANSENS, PATRICK
: MATTHESENS, GASTON; WODAK, SHOSHANA; QUAX, WILHELMUS J.
: TITLE OF INVENTION: METHODS AND MEANS FOR CONTROLLING THE
: STABILITY OF PROTEINS
: NUMBER OF SEQUENCES: 22
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/07/398,706
: FILING DATE: 25-AUG-1989
: SEQ ID NO.: 11
:
: LENGTH: 334
5290690-11

Query Match          10.3%; Score 72.5; DB 6; Length 334;
Best Local Similarity 25.7%; Pred. No. 1.1;
Matches 29; Conservative 20; Mismatches 55; Indels 9; Gaps 3

```

```

Qy      19  LCRSPEALVGR---EVLPEEPAAGGLARVALLEDVLDKDKGLKFLGKYLEV---TLSG 73
           | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db      169  IVRGMATTVGSYTNQRIILDPHKDLRGARAAAEIIIPTTGAAARVALVLDELKGLK 228
           | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Qy      74  MDMAQPCENMTAGDGPLVIMGEVRDGVAVLDAGSYVRAASEKRVKILLELTK 126
           | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db      229  MAMRPETPEALSVYD---LVAELEKEVYEEVNAALKAAAEELKGIILAYSEE 277

RESULT 7
US-09-276-400-8
: Sequence 8, Application US/09276400
: Patent No. 6140056
: GENERAL INFORMATION:
: APPLICANT: Khodadoust, Mehran
: TITLE OF INVENTION: NOVEL MSE-18 PROTEIN AND NUCLEIC ACID MOLECULES AND
: TITLE OF INVENTION: USES THEREFOR
: FILE REFERENCE: MN1-073
: CURRENT APPLICATION NUMBER: US/09/276, 400
: CURRENT FILING DATE: 1999-03-25
: NUMBER OF SEQ ID NOS: 10
: SOFTWARE: Patentin Ver. 2.0
: SEQ ID NO 8
: LENGTH: 754
: TYPE: PRT
: ORGANISM: murine lysyl oxidase-related protein
US-09-276-400-8

Query Match      10.0%, Score 70.5; DB 4; Length 754;
Best Local Similarity 38.9%; Pred. No. 5.8;
Matches 21; Conservative 2; Mismatches 24; Indels 7; Gaps 2.

Qy      37  PEAAAGIRVALEDVLKDDKMGKLRFLGKYLEVTLSGMD---WACPCPMMTAGD 87
           | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db      347  PELGPTAREALSGARMQGMGAIRLS---EVRSGQEPISLRCPSKNITRAED 396

```

```

RESULT 8
US-09-448-076-8
; Sequence 8, Application US/09448076
; Patent No. 6300092
; GENERAL INFORMATION:
; APPLICANT: Khodadoust, Mehran et al.
; TITLE OF INVENTION: METHODS OF USE OF A NOVEL LYSYL OXIDASE-RELATED PROTEIN

```

```

QY      5 PCRCLRSK-----LALSICRSDFAIVGRITVELEEPEAAGGIARVALEDVCLKD-54
      || : | | | | | | | | | | | | | | | | | | | | | | | | | | | |

```

```

Db 665 PCPLLQILGRSRNLNAVYQDGLALSGCHGVA--GQSV-----GRNRNRFQPIRLRR 714
Oy 55 --DKMGLFLGTIKYLEVTLSGMDMACPC-PNMTA-----GDGEPLVIMG---EVR 97
Db 715 VMDMNRNFGFLSAKTLTVALIS--EGAAICAPSLTLAGOTAPAESSFEGDVARVTLGFPPEKLR 772
Oy 98 DGVAVLDAGSVYRA--ASEKRYKLTLELLEK 126
Db 773 VKSRVLEFAGASANAASEAKARVASLQSAVQK 803

RESULT 12
US-08-839-008-2
: Sequence 2, Application US/08839008
: Patent No. 5916758
: GENERAL INFORMATION:
: APPLICANT: Hurle, Mark R
: APPLICANT: McDonnell, Peter C
: APPLICANT: McNulty, Dean E
: APPLICANT: Rosen, Craig A
: APPLICANT: Siemens, Ivo R
: APPLICANT: Young, Peter R
: APPLICANT: Yue, Tian-Li
: TITLE OF INVENTION: Smooth Muscle Cell-Derived Migration Factor
: NUMBER OF SEQUENCES: 9
: CORRESPONDENCE ADDRESSES:
: ADDRESSEE: SmithKline Beecham Corporation
: STREET: 709 Swedeland Road
: CITY: King of Prussia
: STATE: PA
: COUNTRY: USA
: ZIP: 19406
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/839,008
: FILING DATE: 23-APR-1997
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/563,697
: FILING DATE: 28-NOV-1995
: ATTORNEY/AGENT INFORMATION:
: NAME: Baumeister, Kirk
: REGISTRATION NUMBER: 33,833
: REFERENCE/DOCKET NUMBER: P03084
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 610-270-5090
: TELEFAX: 610-270-5090
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 449 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-08-839-008-2

Query Match 9.7%, Score 68; DB 2; Length 449;
Best Local Similarity 23.4%; Pred. Mis. 5.8;
Matches 34; Conservative 14; Mismatches 61; Indels 36; Gaps 7,

Oy 1 PRTPPC-HACULRSLALSLCRSDPAIYGRLEVELEEPBAAGIARVALLEDVTKDDKML 59
Db 313 PDAPCPCPQCRRTGTGLQSNFCASSLIVATAYKSMWRP-GEGLAVTVSLIGAYK----- 365
Oy 60 KFLGTILEVTLSGMDMACP-----CPNMTAGDGPLVIMGEDVAVDGA-VLD 104
Db 366 -----TGGLDLPSPFPGASLAKTYVPCKQCPPKKKGVSYL-LMQQVEENGPVLP 413
Oy 105 AGSVYRAASEKRYKLTLELLEKQAC 129

```

```

DB      414 PESFV-VLHRPNQDQILTNLSKRC 437
:|:|:|:|:|
RESULT 13
US-08-839-008-9
; Sequence 9, Application US/08839008
; Patent No. 5916758
; GENERAL INFORMATION:
; APPLICANT: Hurle, Mark R
; APPLICANT: McDonnell, Peter C
; APPLICANT: McNulty, Dean E
; APPLICANT: Rosen, Craig A
; APPLICANT: Siemens, Ivo R
; APPLICANT: Young, Peter R
; APPLICANT: Yue, Tian-Li
; TITLE OF INVENTION: Smooth Muscle Cell-Derived Migration Factor
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: SmithKline Beecham Corporation
; STREET: 709 Swedeland Road
; CITY: King of Prussia
; STATE: PA
; COUNTRY: USA
; ZIP: 19406
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/839, 008
; FILING DATE: 23-APR-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/563,697
; FILING DATE: 28-NOV-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Baumeister, Kirk
; REGISTRATION NUMBER: 33,833
; REFERENCE/DOCKET NUMBER: P50384
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610-270-5096
; TELEFAX: 610-270-5090
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 449 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-839-008-9

Query Match          9.7%; Score 68; DB 2; Length 449;
Best Local Similarity 23.4%; Pred. No. 5.8;
Matches 34; Conservative 14; Mismatches 61; Indels 36; Gaps 7

OY      1 PRTPC-RACRLRSKLALSLGRSDAIVGRLEVELEPEAAGIARVALEDVLKDKMKGL 59
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB      313 PDAPTCPKQCRRTGTLQSFCASSLVATATVAKSWREP-GEGLAATVSLIGAYK----- 365
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
OY      60 KFLGKLYEVLTLSDGMACP-----CPNMTAGDGPLVIMGEVBDGVA-VLD 104
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB      366 -----TGGDLDPRTPGASLAKFYVPCKQCPPMKKGVSYL-LMQQVEENSGPVLP 413
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
OY      105 AGSYVRAASEKRVKKILELLEKQAC 129
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB      414 PESFV-VLHRPNQDQILTNLSKRC 437

RESULT 14
US-09-134-001C-4257
; Sequence 4257, Application US/09134001C

```

```

; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: LYNN Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134,001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 4257
; LENGTH: 431
; TYPE: PRT
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-4257

```

```

Query Match          9.4%; Score 66; DB 4; Length 431;
Best Local Similarity 24.0%; Pred. No. 9.6;
Matches 29; Conservative 20; Mismatches 54; Indels 18; Gaps 4;

```

```

QY 23 DPAIVGRLEVELEPEAAG---IARVALEDVLDK-----DKMGLKFLGTXYLEVTLSGM 74
Db 173 DFPVGATONTIMASLASGKSIENVAKEPEIVDLANYINMGSKITGAGDTFTIHGV 232
QY 75 DWACCCPMWAGD---GPIVIMGEVRDGVAVLDAGSVRAASEKRVKILELEKACE 130
Db 233 EKLYVEVAIITPDRIEAGTLLIAGAITRG-----DIVRGAIKHMASLIYKLEMGVD 286
QY 131 L 131
Db 287 L 287

```

```

RESULT 15
US-08-365-689-2
; Sequence 2, Application US/08365689
; Patent No. RE35823
; GENERAL INFORMATION:
; APPLICANT: Nabel, Gary J.
; APPLICANT: Schmid, Roland M.
; TITLE OF INVENTION: PROTEINS USEFUL IN THE REGULATION OF
; TITLE OF INVENTION: KAPPA-B-CONTAINING GENES, CORRESPONDING DNA AND RNA
; TITLE OF INVENTION: SEQUENCES, AND VECTORS AND CELLS CONTAINING SAME
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; ADDRESSEE: P.C.
; STREET: 1755 Jefferson Davis Highway, Fourth floor
; CITY: Arlington
; STATE: Virginia
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/365,689
; FILING DATE: Filed herewith
; CLASSIFICATION: 530
; APPLICATION NUMBER: US 08/145,138
; FILING DATE: 12-DEC-1993
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/747,781
; FILING DATE: 21-AUG-1991
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:

```

```

; NAME: Iavalleve, Jean-Paul M.P.
; REGISTRATION NUMBER: 31,451
; REFERENCE/DOCKET NUMBER: 2363-096-55 REISSUE
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)413-3000
; TELEFAX: (703)413-2220
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 899 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
US-08-365-689-2

```

```

Query Match          9.3%; Score 65.5; DB 1; Length 899;
Best Local Similarity 25.4%; Pred. No. 30;
Matches 35; Conservative 21; Mismatches 49; Indels 33; Gaps 7;

```

```

QY 1 PRTPPCRACRLRSKIALSLCRSDPAIVGRLEVELEPEAAGIARVALEDVLDKDKMGLK 60
Db 757 PLRTP-----SPAGPLSLGDTAL-QNLBQLLDGPEAGQSMWELA-----ERLGLR 801
QY 61 FLGTXYLEVT-----LSGMDWAC---PCPNMTAGGPLYING-EVRD---GVAV 102
Db 802 SLVPTIROTSPSGSLRSYELAGDLAGLEALSDMGLGEGVRLRGPTKRLPSTEV 861
QY 103 LDAGSYVRAASEKRVKRI 120
Db 862 KEDSAYGSQSVGEAEKEL 879

```

```

Search completed: February 20, 2003, 08:22:32
Job time : 10.4208 secs

```


GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 20, 2003, 08:21:07 : Search time 5.66785 Seconds
(without alignments)
617.553 Million cell updates/sec

Title: US-09-819-136-2_COPY_412_548

Perfect score: 704
Sequence: 1 PRTPPCRACRLRSKLSLSC.....KIIELLEKQACELNRRFD 137

Scoring table:
BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 140259 seqs, 2554876 residues

Total number of hits satisfying chosen parameters: 140259

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Published_Applications_AA:*
1: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB pep:*
2: /cgn2_6/ptodata/1/pubpaa/PCRT_NEW_PUB pep:*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB pep:*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB pep:*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB pep:*
6: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB pep:*
7: /cgn2_6/ptodata/1/pubpaa/PCRTUS_PUBCOMB pep:*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB pep:*
9: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB pep:*
10: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB pep:*
11: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB pep:*
12: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB pep:*
13: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB pep:*
14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	704	100.0	548	10 US-09-819-136-2	Sequence 2, Appli
2	379	55.8	576	10 US-09-794-589-2	Sequence 2, Appli
3	92.5	13.1	317	9 US-10-146-474-6	Sequence 6, Appli
4	79.5	11.3	144	10 US-09-800-729-143	Sequence 143, App
5	79.5	11.3	294	10 US-09-800-729-146	Sequence 146, App
6	79.5	11.3	294	12 US-10-067-422-12	Sequence 12, Appli
7	79.5	11.3	415	9 US-09-905-291A-104	Sequence 104, App
8	79.5	11.3	415	9 US-09-902-853-104	Sequence 104, App
9	79.5	11.3	415	9 US-09-907-824-104	Sequence 104, App
10	79.5	11.3	415	9 US-09-907-824-104	Sequence 104, App
11	79.5	11.3	415	9 US-09-904-011-104	Sequence 104, App
12	79.5	11.3	415	9 US-09-906-742-104	Sequence 104, App
13	79.5	11.3	415	9 US-09-906-838-104	Sequence 104, App
14	79.5	11.3	415	9 US-09-907-612-104	Sequence 104, App
15	79.5	11.3	415	9 US-09-907-942-104	Sequence 104, App
16	79.5	11.3	415	10 US-09-909-320-104	Sequence 104, App
17	79.5	11.3	415	10 US-09-909-088B-104	Sequence 104, App
18	79	11.2	295	9 US-09-934-483A-1	Sequence 1, Appli
19	79	11.2	295	9 US-09-934-483A-5	Sequence 5, Appli

20	79	11.2	295	9	US-10-146-474-2	Sequence 2, Appli
21	75.5	10.7	760	9	US-09-712-363-292	Sequence 292, App
22	75	10.7	295	9	US-09-978-295A-415	Sequence 415, App
23	75	10.7	295	9	US-09-981-876-179	Sequence 179, App
24	75	10.7	295	9	US-09-978-697-415	Sequence 415, App
25	75	10.7	295	9	US-09-978-192A-415	Sequence 415, App
26	75	10.7	295	9	US-09-999-832A-415	Sequence 415, App
27	75	10.7	295	9	US-09-978-189-415	Sequence 415, App
28	75	10.7	295	9	US-09-148-545-179	Sequence 179, App
29	75	10.7	296	9	US-09-981-876-237	Sequence 237, App
30	75	10.7	296	9	US-09-148-545-237	Sequence 237, App
31	74	10.5	721	10	US-09-727-801-14	Sequence 14, Appli
32	71	10.1	501	9	US-09-738-626-6084	Sequence 6084, Ap
33	70.5	10.0	166	9	US-09-738-626-5198	Sequence 5198, Ap
34	70.5	10.0	754	10	US-09-782-980-17	Sequence 17, Appli
35	70.5	10.0	754	10	US-09-909-743-8	Sequence 8, Appli
36	68.5	9.7	1452	12	US-10-050-673-2	Sequence 2, Appli
37	68	9.7	449	10	US-09-919-497-89	Sequence 89, Appli
38	68	9.7	458	10	US-09-925-301-1282	Sequence 1282, Ap
39	67	9.5	440	10	US-09-764-853-594	Sequence 594, App
40	67	9.5	449	10	US-09-764-853-577	Sequence 577, App
41	67	9.5	563	9	US-09-738-626-6543	Sequence 6643, Ap
42	66.5	9.4	246	9	US-09-738-626-5793	Sequence 5793, Ap
43	66.5	9.4	690	9	US-10-068-059-10	Sequence 10, Appli
44	66.5	9.4	743	10	US-09-771-161A-164	Sequence 164, App
45	66.5	9.4	743	10	US-09-771-161A-254	Sequence 254, App

ALIGNMENTS

```
RESULT 1
US-09-819-136-2
; Sequence 2, Application US/09819136
; Patent No. US20020146789A1
; GENERAL INFORMATION:
; APPLICANT: Konklin, Darrell C.
; APPLICANT: Gao, Zeren
; TITLE OF INVENTION: MULTI-DOMAIN PROTEINASE INHIBITOR
; FILE REFERENCE: 00-25
; CURRENT APPLICATION NUMBER: US/09/819,136
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 60/193,642
; PRIOR FILING DATE: 2000-03-31
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 548
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-819-136-2

Query Match      100.0%; Score 704; DB 10; Length 548;
Best Local Similarity 100.0%; Pred. No. 7.6e-72;
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 PRTPPCRACRLRSKLSLSCRSDFALVGRITVELEBPEAAGGTARVALDEYLDKDMGK 60
      |||
DB      412 PRTPPCRACRLRSKLSLSCRSDFALVGRITVELEBPEAAGGTARVALDEYLDKDMGK 471
      |||
QY      61 FLGTKLEVTYLSGMDRACCPNNMTAGDPLVIMGEVDRDGYAVLDAGSYRAASEKRYKKI 120
      |||
DB      472 FLGTKLEVTYLSGMDRACCPNNMTAGDPLVIMGEVDRDGYAVLDAGSYRAASEKRYKKI 531
      |||
QY      121 LELLEKQACELNRRFD 137
      |||
DB      532 LELLEKQACELNRRFD 548

RESULT 2
US-09-794-589-2
; Sequence 2, Application US/09794589
; Patent No. US20020004224A1
```

```

; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: KUNITZ DOMAIN POLYPEPTIDE ZKUN8
; FILE REFERENCE: 00-01
; CURRENT APPLICATION NUMBER: US/09/794,589
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/186,069
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 576
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-794-589-2

Query Match          53.8%; Score 379; DB 10; Length 576;
Best Local Similarity 54.6%; Pred. No. 5,9e-35;
Matches 71; Conservative 28; Mismatches 29; Indels 2; Gaps 1;

QY 6 CRACRLRSKLALSLCRSDFAIVGRLEVELEPEPAAGIARVALLEDVLDKDKMGLKFGTK 65
DB 445 CRACKPRKQIVTSRPSRSPVILGRVSELTREPDG--GRALVTVDVLDDEKMGLEFLGQE 502
QY 66 YLEVTLSGMDNACPCPNMTAGDGPLVINGEVVDGVAVLDAAGSYVRAASEKRVKLLIEDLE 125
DB 503 PLEVTLTHVDNACPCPNVTSEMPLTIMGVEVDGKAMLRPDSFVGASSARVRKLRLEVYMH 562
QY 126 KOACELNRF 135
DB 563 KKTCDVLEKF 572

RESULT 3
; US-10-146-474-6
; Sequence 6, Application US/10146474
; Publication No. US20030023061A1
; GENERAL INFORMATION:
; APPLICANT: Umansky, Samuil
; Melkonyan, Hovsep
; TITLE OF INVENTION: A FAMILY OF GENES ENCODING
; APOPTOSIS-RELATED PEPTIDES; PEPTIDES ENCODED THEREBY AND
; METHODS OF USE THEREOF
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 Page Mill Road
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/146,474
; FILING DATE: 14-May-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/937,067
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Leinhardt, Susan K.
; REGISTRATION NUMBER: 33,943
; REFERENCE/DOCKET NUMBER: 23647-20018.00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 813-5600
; TELEFAX: (650) 494-0792
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 317 amino acids

```

```

; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 6:
; US-10-146-474-6

Query Match          13.1%; Score 92.5; DB 9; Length 317;
Best Local Similarity 26.8%; Pred. No. 0.0084;
Matches 37; Conservative 18; Mismatches 76; Indels 7; Gaps 4;

QY 1 PRTPPCRACRLRSK--LALSICRSDFAIYGRLEVELEPEPAAGIARVALLEDVLDKDKM 57
DB 176 PVTKICAQCEMEHSADGIMEGMCSDFVYMKRIKEIKIENGDRLLIAQKKLLKRGF- 234
QY 58 GLKFLGTRKYLEVTLSGMDNACPCPNMTAGDGPLVINGEVVDGVAVLDAAGSYVRAASEKRV 117
DB 235 -LKRBDTRKRLVLMKN-GAGCPDPLDSLAGSFLVMGRKVDGQLLMA-VYRMDKKREM 291
QY 118 KRIELEKQACELNRF 135
DB 292 KFAVKFMFSPCSLYTF 309

RESULT 4
; US-09-800-729-143
; Sequence 143, Application US/09800729
; Patent No. US20020068319A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 32 Human secreted proteins
; FILE REFERENCE: P2044P1
; CURRENT APPLICATION NUMBER: US/09/800,729
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: PCT/US00/26013
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 60/155,709
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 217
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 143
; LENGTH: 144
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-800-729-143

Query Match          11.3%; Score 79.5; DB 10; Length 144;
Best Local Similarity 24.8%; Pred. No. 0.088;
Matches 33; Conservative 28; Mismatches 59; Indels 13; Gaps 9;

QY 1 PRTPPC-RACRLRSKLALSLCRSDFAIVGRLEVELEPEPAAGI-ARVALLEDVLDKDKMG 58
DB 21 PTVALLCOQKCRRTGTLGNVCSDFVLGAVITTTIRD--GSLHATVSIINIKKGNLA 77
QY 59 LKFLGTRKYLEVTLSGMDNAC-PCPNMTAGDGPLVINGEV-RGVAVLDGSYVRAASEKRV 116
DB 78 IQQAG-KNMSARLTIV--CKOCPLLRGLN-YIIMGVGEDGRKIMNSFIMEKTKRN 132
QY 117 VKKILELEKQAC 129
DB 133 -QKLDALAKNKQC 144

RESULT 5
; US-09-800-729-146
; Sequence 146, Application US/09800729
; Patent No. US20020068319A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 32 Human secreted proteins
; FILE REFERENCE: P2044P1
; CURRENT APPLICATION NUMBER: US/09/800,729
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: PCT/US00/26013

```

;; PRIOR FILING DATE: 2000-09-22
;; PRIOR APPLICATION NUMBER: 60/155,709
;; PRIOR FILING DATE: 1999-09-24
;; NUMBER OF SEQ ID NOS: 217
;; SOFTWARE: Patent In Ver. 2.0
;; SEQ ID NO 146
;; LENGTH: 294
;; TYPE: PRT
;; ORGANISM: Homo sapiens
;; FEATURE:
;; NAME/KEY: SITE
;; LOCATION: (93)
;; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;; NAME/KEY: SITE
;; LOCATION: (97)
;; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-800-729-146

Query Match 11.3%; Score 79.5; DB 10; Length 294;
Best Local Similarity 24.8%; Pred. No. 0.23;
Matches 33; Conservative 28; Mismatches 59; Indels 13; Gaps 9;

Oy 1 PRTPPC-RACRLRSKLSLSCSDFAIVGRLEVELEPEAAGI-ARVALEDVLKDDKMG 58
Db 171 PTVALCQCKCRRTGTLEGYCSSDFVLAGTVITTRD---GSLHATVSIITVYEGNLA 227
Oy 59 LKFLGTKYLEVTLSGMDNAC-PCPNMTAGDGPLVTMGCV-RDGVAVLDAGSVYRAASEKR 116
Db 228 IQOAG-KNMSARLTIVV---CKOCPLLRRLN-YIIMGVGEDGRGKIMPNSFIIMFKTKN 282
Oy 117 VKKILELEKQAC 129
Db 283 -OKLIDLAKNKQC 294

RESULT 6

US-10-067-422-12
;; Sequence 12, Application US/10067422
;; Patent No. US20020143170A1

;; GENERAL INFORMATION:
;; APPLICANT: NI et al.
;; TITLE OF INVENTION: Bone Morphogenic Protein (BMP) Polynucleotides, Polypeptides, and
;; FILE REFERENCE: P0004P1
;; CURRENT APPLICATION NUMBER: US/10/067,422
;; PRIOR APPLICATION NUMBER: 2002-02-07
;; PRIOR FILING DATE: 2000-10-11
;; PRIOR APPLICATION NUMBER: PCT/US00/09028
;; PRIOR FILING DATE: 2000-04-06
;; PRIOR APPLICATION NUMBER: 60/152,933
;; PRIOR FILING DATE: 1999-09-09
;; PRIOR APPLICATION NUMBER: 60/147,020
;; PRIOR FILING DATE: 1999-08-03
;; PRIOR APPLICATION NUMBER: 60/131,672
;; PRIOR FILING DATE: 1999-04-29
;; PRIOR APPLICATION NUMBER: 60/130,693
;; PRIOR FILING DATE: 1999-04-23
;; NUMBER OF SEQ ID NOS: 32
;; SOFTWARE: Patent In Ver. 2.0
;; SEQ ID NO 12
;; LENGTH: 294
;; TYPE: PRT
;; ORGANISM: Homo sapiens
;; FEATURE:
;; NAME/KEY: SITE
;; LOCATION: (93)
;; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;; NAME/KEY: SITE
;; LOCATION: (97)
;; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-067-422-12

Query Match 11.3%; Score 79.5; DB 12; Length 294;
Best Local Similarity 24.8%; Pred. No. 0.23;
Matches 33; Conservative 28; Mismatches 59; Indels 13; Gaps 9;

Oy 1 PRTPPC-RACRLRSKLSLSCSDFAIVGRLEVELEPEAAGI-ARVALEDVLKDDKMG 58
Db 171 PTVALCQCKCRRTGTLEGYCSSDFVLAGTVITTRD---GSLHATVSIITVYEGNLA 227
Oy 59 LKFLGTKYLEVTLSGMDNAC-PCPNMTAGDGPLVTMGCV-RDGVAVLDAGSVYRAASEKR 116
Db 228 IQOAG-KNMSARLTIVV---CKOCPLLRRLN-YIIMGVGEDGRGKIMPNSFIIMFKTKN 282
Oy 117 VKKILELEKQAC 129
Db 283 -OKLIDLAKNKQC 294

RESULT 7

US-09-905-291A-104
;; Sequence 104, Application US/09905291A
;; Patent No. US20020160374A1

;; GENERAL INFORMATION:

;; APPLICANT: Genentech, Inc.
;; APPLICANT: Ashkenazi, Avi
;; APPLICANT: Botstein, David
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Eaton, Dan L.
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gao, Wei-Qiang
;; APPLICANT: Gerber, Hanspeter
;; APPLICANT: Gertlisen, Mary E.
;; APPLICANT: Goddard, A.
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Grimaldi, Christopher J.
;; APPLICANT: Gunney, Austin L.
;; APPLICANT: Hillan, Kenneth, J.
;; APPLICANT: Kijavlin, Ivar J.
;; APPLICANT: Mather, Jennie P.
;; APPLICANT: Pan, James
;; APPLICANT: Paoni, Nicholas F.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Williams, P. Mickey
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: 10466-14
;; CURRENT APPLICATION NUMBER: US/09/905,291A
;; PRIOR APPLICATION NUMBER: 2001-07-12
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: 2000-02-22
;; PRIOR APPLICATION NUMBER: US 60/143,048
;; PRIOR FILING DATE: 1999-07-07
;; PRIOR APPLICATION NUMBER: US 60/145,698
;; PRIOR FILING DATE: 1999-07-26
;; PRIOR APPLICATION NUMBER: US 60/146,222
;; PRIOR FILING DATE: 1999-07-28
;; PRIOR APPLICATION NUMBER: PCT/US99/20544
;; PRIOR FILING DATE: 1999-09-08
;; PRIOR APPLICATION NUMBER: PCT/US99/20944
;; PRIOR FILING DATE: 1999-09-13
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/21547
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/23089
;; PRIOR FILING DATE: 1999-10-05
;; PRIOR APPLICATION NUMBER: PCT/US99/28214
;; PRIOR FILING DATE: 1999-11-29
;; PRIOR APPLICATION NUMBER: PCT/US99/28313

```

; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 104
; LENGTH: 415
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-291A-104
```

```

Query Match      11.3%; Score 79.5; DB 9; Length 415;
Best Local Similarity 24.8%; Pred. No. 0.36;
Matches 33; Conservative 28; Mismatches 59; Indels 13; Gaps 9;
```

```

QY 1 PRTPPC-RACRLRSKLSLCSRSPFAIVGRLEVELEPEAAGI-ARVALEDVLKDDKMG 58
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 292 PTVALCOQCKRRTGTEGVNCSDFVLACTVITITRD---GSLHATVSIINIYKEGNLA 348
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 59 LKFLGRTYLEVLTISGMDMAC-PCPNMTAGDGPLVIMGEV-RDGVAVLDAGSVYRAASEKR 116
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 349 IQQAG-KNMSARLTV---CKQCPILRRGLN-YIIMGQVGEDGRKIMPNSFIIMFKTKN 403
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 117 VKRIELEKQAC 129
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 404 -QKILDALKNKQC 415
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
```

RESULT 8

```

; Sequence 104, Application US/09902853
; Publication No. US20020192659A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillen, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paonl, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,853
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: US/09/665,350
```

```

; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 104
; LENGTH: 415
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-902-853-104
```

```

Query Match      11.3%; Score 79.5; DB 9; Length 415;
Best Local Similarity 24.8%; Pred. No. 0.36;
Matches 33; Conservative 28; Mismatches 59; Indels 13; Gaps 9;
```

```

QY 1 PRTPPC-RACRLRSKLSLCSRSPFAIVGRLEVELEPEAAGI-ARVALEDVLKDDKMG 58
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 292 PTVALCOQCKRRTGTEGVNCSDFVLACTVITITRD---GSLHATVSIINIYKEGNLA 348
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 59 LKFLGRTYLEVLTISGMDMAC-PCPNMTAGDGPLVIMGEV-RDGVAVLDAGSVYRAASEKR 116
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 349 IQQAG-KNMSARLTV---CKQCPILRRGLN-YIIMGQVGEDGRKIMPNSFIIMFKTKN 403
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 117 VKRIELEKQAC 129
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 404 -QKILDALKNKQC 415
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
```

RESULT 9

```

; Sequence 104, Application US/09907824
; Publication No. US20020197671A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
```

```

: APPLICANT: Goddard, A.
: APPLICANT: Godowski, Paul J.
: APPLICANT: Grimaldi, Christopher J.
: APPLICANT: Gurney, Austin L.
: APPLICANT: Hillan, Kenneth, J.
: APPLICANT: Kiljavin, Ivar J.
: APPLICANT: Mather, Jennie P.
: APPLICANT: Pan, James
: APPLICANT: Paoni, Nicholas F.
: APPLICANT: Roy, Margaret Ann
: APPLICANT: Stewart, Timothy A.
: APPLICANT: Tumas, Daniel
: APPLICANT: Williams, P. Mickey
: APPLICANT: Wood, William, I.
: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
: TITLE OF INVENTION: Acids Encoding the Same
: FILE REFERENCE: 10466-14
: CURRENT APPLICATION NUMBER: US/09/907,824
: CURRENT FILING DATE: 2001-07-17
: PRIOR APPLICATION NUMBER: 09/665,350
: PRIOR FILING DATE: 2000-09-18
: PRIOR APPLICATION NUMBER: PCT/US00/04414
: PRIOR FILING DATE: 2000-02-22
: PRIOR APPLICATION NUMBER: US 60/143,048
: PRIOR FILING DATE: 1999-07-07
: PRIOR APPLICATION NUMBER: US 60/145,698
: PRIOR FILING DATE: 1999-07-26
: PRIOR APPLICATION NUMBER: US 60/146,222
: PRIOR FILING DATE: 1999-07-28
: PRIOR APPLICATION NUMBER: PCT/US99/20594
: PRIOR FILING DATE: 1999-09-08
: PRIOR APPLICATION NUMBER: PCT/US99/20944
: PRIOR FILING DATE: 1999-09-13
: PRIOR APPLICATION NUMBER: PCT/US99/21090
: PRIOR FILING DATE: 1999-09-15
: PRIOR APPLICATION NUMBER: PCT/US99/21547
: PRIOR FILING DATE: 1999-09-15
: PRIOR APPLICATION NUMBER: PCT/US99/23089
: PRIOR FILING DATE: 1999-10-05
: PRIOR APPLICATION NUMBER: PCT/US99/28214
: PRIOR FILING DATE: 1999-11-29
: PRIOR APPLICATION NUMBER: PCT/US99/28313
: PRIOR FILING DATE: 1999-11-30
: PRIOR APPLICATION NUMBER: PCT/US99/28564
: PRIOR FILING DATE: 1999-12-02
: PRIOR APPLICATION NUMBER: PCT/US99/28565
: PRIOR FILING DATE: 1999-12-02
: PRIOR APPLICATION NUMBER: PCT/US99/30095
: PRIOR FILING DATE: 1999-12-16
: PRIOR APPLICATION NUMBER: PCT/US99/30911
: PRIOR FILING DATE: 1999-12-20
: PRIOR APPLICATION NUMBER: PCT/US99/30999
: PRIOR FILING DATE: 1999-12-20
: PRIOR APPLICATION NUMBER: PCT/US00/00219
: PRIOR FILING DATE: 2000-01-05
: NUMBER OF SEQ ID NOS: 423
: SEQ ID NO 104
: LENGTH: 415
: TYPE: PRT
: ORGANISM: Homo Sapiens
: US-09-907-824-104

Query Match          11.3%: Score 79.5; DB 9; Length 415;
Best Local Similarity 24.8%: Pred. No. 0.36;
Matches 33; Conservative 28; Mismatches 59; Indels 13; Gaps 9;

```

```

OY      117 VKRIELEKQAC 129
DB      404 -QKLDLAKNKQC 415

RESULT 10
US-09-907-841-104
: Sequence 104, Application US/09907841
: Publication No. US20020198366A1
: GENERAL INFORMATION:
: APPLICANT: Genentech, Inc.
: APPLICANT: Ashkenazi, Avi
: APPLICANT: Botstein, David
: APPLICANT: Desnoyers, Luc
: APPLICANT: Eaton, Dan L.
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Flavaro, Ellen
: APPLICANT: Fong, Sherman
: APPLICANT: Gao, Wei-Qiang
: APPLICANT: Gerber, Hanspeter
: APPLICANT: Gerritsen, Mary E.
: APPLICANT: Goddard, A.
: APPLICANT: Godowski, Paul J.
: APPLICANT: Grimaldi, Christopher J.
: APPLICANT: Gurney, Austin L.
: APPLICANT: Hillan, Kenneth, J.
: APPLICANT: Kiljavin, Ivar J.
: APPLICANT: Mather, Jennie P.
: APPLICANT: Pan, James
: APPLICANT: Paoni, Nicholas F.
: APPLICANT: Stewart, Timothy A.
: APPLICANT: Tumas, Daniel
: APPLICANT: Williams, P. Mickey
: APPLICANT: Wood, William, I.
: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
: TITLE OF INVENTION: Acids Encoding the Same
: FILE REFERENCE: 10466-14
: CURRENT APPLICATION NUMBER: US/09/907,841
: CURRENT FILING DATE: 2001-11-20
: PRIOR APPLICATION NUMBER: PCT/US00/04414
: PRIOR FILING DATE: 2000-02-22
: PRIOR APPLICATION NUMBER: US 60/143,048
: PRIOR FILING DATE: 1999-07-07
: PRIOR APPLICATION NUMBER: US 60/145,698
: PRIOR FILING DATE: 1999-07-26
: PRIOR APPLICATION NUMBER: US 60/146,222
: PRIOR FILING DATE: 1999-07-28
: PRIOR APPLICATION NUMBER: PCT/US99/20594
: PRIOR FILING DATE: 1999-09-08
: PRIOR APPLICATION NUMBER: PCT/US99/20944
: PRIOR FILING DATE: 1999-09-13
: PRIOR APPLICATION NUMBER: PCT/US99/21090
: PRIOR FILING DATE: 1999-09-15
: PRIOR APPLICATION NUMBER: PCT/US99/21547
: PRIOR FILING DATE: 1999-09-15
: PRIOR APPLICATION NUMBER: PCT/US99/23089
: PRIOR FILING DATE: 1999-09-15
: PRIOR APPLICATION NUMBER: PCT/US99/23089
: PRIOR FILING DATE: 1999-10-05
: PRIOR APPLICATION NUMBER: PCT/US99/28214
: PRIOR FILING DATE: 1999-11-29
: Remaining Prior Application data removed - See file Wrapper or PALM.
: NUMBER OF SEQ ID NOS: 423
: SEQ ID NO 104
: LENGTH: 415
: TYPE: PRT
: ORGANISM: Homo sapiens
: US-09-907-841-104

Query Match          11.3%: Score 79.5; DB 9; Length 415;
Best Local Similarity 24.8%: Pred. No. 0.36;
Matches 33; Conservative 28; Mismatches 59; Indels 13; Gaps 9;

```

QY 1 PRTPPC-RACRLRSKLTALSLCRSDFAIVGRLEVELEPEAAGI-ARVALEDVLKDDKMG 58
Db 292 PTVALCOQCRRTGTLEGNVCSSDFVLAVITTTTRD---GSLHATVSIINIYKEGNLA 348
QY 59 LKFLGTRKYLEVTLISGMDMAC-PCPNMTAGDGPLVIMGEV-RDGAVALDAGSYVRAASEKR 116
Db 349 IQQAG-KNMSARLTIV--CKOCPLLRGLN-YIIMGVGEDGGRKIMPNSFIMMFKTKN 403
QY 117 VKRIELELEKQAC 129
Db 404 -OKLIDALKNKQC 415
RESULT 11
US-09-904-011-104
Sequence 104, Application US/09904011
Publication No. US20030003530A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertlisen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/904,011
PRIOR FILING DATE: 2001-07-11
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564

PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 104
LENGTH: 415
TYPE: PRT
ORGANISM: Homo Saplen
US-09-904-011-104
Query Match 11.3%; Score 79.5; DB 9; Length 415;
Best Local Similarity 24.8%; Pred. No. 0.36;
Matches 33; Conservative 28; Mismatches 59; Indels 13; Gaps 9;
QY 1 PRTPPC-RACRLRSKLTALSLCRSDFAIVGRLEVELEPEAAGI-ARVALEDVLKDDKMG 58
Db 292 PTVALCOQCRRTGTLEGNVCSSDFVLAVITTTTRD---GSLHATVSIINIYKEGNLA 348
QY 59 LKFLGTRKYLEVTLISGMDMAC-PCPNMTAGDGPLVIMGEV-RDGAVALDAGSYVRAASEKR 116
Db 349 IQQAG-KNMSARLTIV--CKOCPLLRGLN-YIIMGVGEDGGRKIMPNSFIMMFKTKN 403
QY 117 VKRIELELEKQAC 129
Db 404 -OKLIDALKNKQC 415
RESULT 12
US-09-906-742-104
Sequence 104, Application US/09906742
Publication No. US20030023054A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertlisen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/906,742
PRIOR FILING DATE: 2001-07-16
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PCT/US00/04414

```

; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 104
; LENGTH: 415
; TYPE: PRT
; ORGANISM: Homo Saplen
US-09-906-742-104

Query Match      11.3%; Score 79.5; DB 9; Length 415;
Best Local Similarity 24.8%; Pred. No. 0.36;
Matches 33; Conservative 28; Mismatches 59; Indels 13; Gaps 9;

QY 1 PRTPEC-RACRLSKLALSLCRSDFIVGRLEVELEPEAAGI-ARVALDEVLRKDKKG 58
DB 292 PTVALCQOQCKRGTGLENYCSDFLVAGTIVTTTRD--GSLHATVSIINIYKGNLA 348
QY 59 LKFLGTYLEVTLSCGDMAC-PCPNMTAGDGPLVINGEV-RDGVAVLDAGSYVRASEKR 116
DB 349 IQAG-KNMSARLTV---CKOCPLLRRLN-YIIMGVGEGRCKIMNSPIFMKTKN 403

QY 117 VKKILELEKQAC 129
DB 404 -OKLIDLAKNKQC 415

```

```

RESULT 13
US-09-906-838-104
; Sequence 104, Application US/0906838
; Publication No. US20030027143A1
; GENERAL INFORMATION:

```

```

; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Shetman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerltsen, Mary E.

```

```

; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT FILING DATE: US/09/906,838
; PRIOR FILING DATE: 2001-07-16
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 104
; LENGTH: 415
; TYPE: PRT
; ORGANISM: Homo Saplen
US-09-906-838-104

Query Match      11.3%; Score 79.5; DB 9; Length 415;
Best Local Similarity 24.8%; Pred. No. 0.36;
Matches 33; Conservative 28; Mismatches 59; Indels 13; Gaps 9;

QY 1 PRTPEC-RACRLSKLALSLCRSDFIVGRLEVELEPEAAGI-ARVALDEVLRKDKKG 58
DB 292 PTVALCQOQCKRGTGLENYCSDFLVAGTIVTTTRD--GSLHATVSIINIYKGNLA 348
QY 59 LKFLGTYLEVTLSCGDMAC-PCPNMTAGDGPLVINGEV-RDGVAVLDAGSYVRASEKR 116
DB 349 IQAG-KNMSARLTV---CKOCPLLRRLN-YIIMGVGEGRCKIMNSPIFMKTKN 403

```


This Page Blank (uspto)

GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 20, 2003, 08:09:37 ; Search time 3.99527 seconds
(without alignments)
478.688 Million cell updates/sec

Title: US-09-819-136-2_COPY_93_157
Perfect score: 390
Sequence: 1 CEGFVCPQGSQSDCDIMDGP.....RCYMDAEXCLRLHLHYPC 65

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/1/1aa/5A_COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/5B_COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/6A_COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/6B_COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/PCYUS_COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/Backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	101	25.9	1940	2	US-08-644-271-30
2	101	25.9	1940	4	US-09-077-955-34
3	95	24.4	71	2	US-08-972-008-4
4	95	24.4	71	4	US-09-267-409-4
5	95	24.4	263	2	US-08-972-008-2
6	95	24.4	263	4	US-09-141-027-2
7	95	24.4	263	4	US-09-267-409-2
8	91	23.3	983	4	US-09-412-554A-2
9	87	22.3	317	4	US-09-141-027-3
10	84	21.5	380	3	US-08-468-846-2
11	84	21.5	380	4	US-08-915-096A-2
12	80.5	20.6	347	4	US-09-605-785-590
13	80.5	20.6	374	2	US-08-820-170A-25
14	80.5	20.6	374	3	US-09-055-699-25
15	80.5	20.6	374	4	US-09-273-565-25
16	80.5	20.6	374	4	US-09-565-538-25
17	80.5	20.6	374	4	US-09-661-468-25
18	80.5	20.6	374	5	PCT-US95-06385-2
19	71.5	18.3	303	6	US-09-513-442-2
20	71.5	18.3	467	4	US-08-421-661-6
21	71	18.2	664	1	US-09-383-586-20
22	70.5	18.1	317	4	US-09-188-930-183
23	68	17.4	771	4	US-07-728-215-37
24	67.5	17.3	94	2	US-08-938-085A-37
25	67.5	17.3	1964	4	US-09-467-997-1
26	67.5	17.3	184	1	US-08-211-942-7
27	67	17.2			

28	67	17.2	186	1	US-08-211-942-9	Sequence 9, Appl1
29	67	17.2	1525	3	US-09-191-647-2	Sequence 2, Appl1
30	67	17.2	1525	4	US-09-540-245A-2	Sequence 2, Appl1
31	67	17.2	1525	4	US-09-540-153-2	Sequence 5, Appl1
32	66.5	17.1	160	3	US-09-191-647-5	Sequence 5, Appl1
33	66.5	17.1	160	4	US-09-540-245A-5	Sequence 5, Appl1
34	66.5	17.1	160	4	US-09-540-153-5	Sequence 5, Appl1
35	66	16.9	578	4	US-08-981-392-13	Sequence 35, Appl1
36	65.5	16.8	94	2	US-07-728-215-35	Sequence 30, Appl1
37	65.5	16.8	94	2	US-08-938-085A-35	Sequence 30, Appl1
38	65.5	16.8	798	2	US-07-728-215-30	Sequence 13, Appl1
39	65.5	16.8	798	4	US-08-938-085A-30	Sequence 13, Appl1
40	65	16.7	104	3	US-09-191-647-13	Sequence 13, Appl1
41	65	16.7	104	4	US-09-540-245A-13	Sequence 13, Appl1
42	65	16.7	104	4	US-09-540-153-13	Sequence 18, Appl1
43	65	16.7	480	3	US-08-923-454A-18	Sequence 2, Appl1
44	65	16.7	1523	4	US-09-182-024A-2	Sequence 4, Appl1
45	64.5	16.5	1139	1	US-08-537-210A-4	

ALIGNMENTS

RESULT 1
US-08-644-271-30
Sequence 30, Application US/08644271
Patent No. 5814478
GENERAL INFORMATION:
APPLICANT: Valenzuela, et al.
TITLE OF INVENTION: NOVEL TYROSINE KINASE RECEPTORS
TITLE OF INVENTION: AND LIGANDS
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
ADDRESSEE: Regeneron Pharmaceuticals, Inc.
STREET: 777 Old Saw Mill Road
CITY: Tarrytown
STATE: NY
COUNTRY: USA
ZIP: 10591
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA: 2.0
APPLICATION NUMBER: US/08/644, 271
FILING DATE: 10-MAY-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 60/008, 657
FILING DATE: 15-DEC-1995
ATTORNEY/AGENT INFORMATION:
NAME: Cobert, Robert J
REGISTRATION NUMBER: 36,108
REFERENCE/DOCKET NUMBER: REG 195A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 914-345-7400
TELEFAX: 914-345-7721
TELEX:
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 1940 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: Rat Agt1n
LOCATION: 1...1940
OTHER INFORMATION:
US-08-644-271-30
Query Match 25.9%, Score 101, DB 2, Length 1940;

LENGTH: 983
TYPE: PRT
ORGANISM: Homo sapiens
US-09-412-554A-2

Query Match
Best Local Similarity 39.1%; Pred. No. 0.027;
Matches 18; Conservative 5; Mismatches 23; Indels 0; Gaps 0;

QY 18 GQVPCRCRDCRCEPFTCASDGLTYNRCYMDACLRGLHLTIY 63
DB 83 GQAECAACMDLCKRHYKPVGSGDEFEYENHCEVHRAACLKKQKITIV 128

RESULT 9
US-09-141-027-3
Sequence 3, Application US/09141027A
Patent No. 6372454
GENERAL INFORMATION:
APPLICANT: Duan, et al.
TITLE OF INVENTION: Follistatin-3
FILE REFERENCE: PF388
CURRENT APPLICATION NUMBER: US/09/141,027A
CURRENT FILING DATE: 1998-08-27
EARLIER APPLICATION NUMBER: 60/656,248
EARLIER FILING DATE: 1997-08-29
NUMBER OF SEQ ID NOS: 19
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3
LENGTH: 317
TYPE: PRT
ORGANISM: Homo sapiens
US-09-141-027-3

Query Match
Best Local Similarity 35.7%; Pred. No. 0.022;
Matches 25; Conservative 5; Mismatches 28; Indels 12; Gaps 5;

QY 1 CEGFVCPQGGSDCDIWD---GQVPCR-----CRDRCRCEPFTCASDGLTYNRCYMDAE 52
DB 245 CEDLOC-TGGRKC-LMDKVGRCGLCDELCPDSKSDP--VCASDNATYASCAMKEA 300
QY 53 ACLRGLHLHI 62
DB 301 ACSSGVLLEV 310

RESULT 10
US-08-468-846-2
Sequence 2, Application US/08468846
Patent No. 6074839
GENERAL INFORMATION:
APPLICANT: Meissner, Paul
APPLICANT: Fuldner, Rebecca
APPLICANT: Fei-Wei, Ying
APPLICANT: Adams, Mark
TITLE OF INVENTION: TRANSFORMING GROWTH FACTOR ALPHA HI
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN, CECCHI,
STREET: 6 Becker Farm Road
CITY: Roseland
STATE: New Jersey
COUNTRY: USA
ZIP: 07068
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/468,846

FILING DATE: 06-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/208,008
FILING DATE: 08-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: Ferraro, Gregory D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-465
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 380 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-468-846-2

Query Match
Best Local Similarity 30.3%; Pred. No. 0.058;
Matches 20; Conservative 9; Mismatches 27; Indels 10; Gaps 3;

QY 3 GFVCPQGGSDCDIWDGQVPCRCRDCRCEPFTCASDGLTYNRCYMDACLRGLHLTI 62
DB 85 GGVCCKEDG-----DGLK-CACQFCQCHTNYIPVCGSGNDIYQNECFILRAACKHQKITIV 137
QY 63 V---PC 65
DB 138 IARGPC 143

RESULT 11
US-08-915-096A-2
Sequence 2, Application US/08915096A
Patent No. 6265543
GENERAL INFORMATION:
APPLICANT: Meissner, Paul S.
APPLICANT: Fuldner, Rebecca A.
APPLICANT: Adams, Mark D.
TITLE OF INVENTION: Transforming Growth Factor Alpha HI
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: MD
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/915,096A
FILING DATE: 20-AUG-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/468,846
FILING DATE: 06-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/208,008
FILING DATE: 08-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: Brookes, A. Anders
REGISTRATION NUMBER: 36,373
REFERENCE/DOCKET NUMBER: PF110D1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 301-309-8504
TELEFAX: 301-309-8439
INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:
LENGTH: 380 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-915-096A-2

Query Match 21.5%; Score 84; DB 4; Length 380;
Best Local Similarity 30.3%; Pred. No. 0.058;
Matches 20; Conservative 9; Mismatches 27; Indels 10; Gaps 3;

OY 3 GFCVCGGSDCDIMDGPVCRDRCKEPEFTCASDGLTYNRCYMDAACLRLGLHL 62
DB 85 GCVCKEDG-----DGLK-CACQFCCHTYIVYCGSNGDTYNECFLRNAACKHOKETIV 137

OY 63 V---PC 65
DB 138 IARGPC 143

RESULT 12
US-09-605-785-590
Sequence 590, Application US/09605785
Patent No. 6321716
GENERAL INFORMATION:

APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, David C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yuqi
APPLICANT: Henderson, Robert A.
APPLICANT: Kalos, Michael D.
APPLICANT: Fanger, Gary R.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedyck, Thomas S.
APPLICANT: Carter, Darick
APPLICANT: Li, Samuel
APPLICANT: Wang, Aljun
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Hepler, William
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
FILE REFERENCE: 210121.427C16
CURRENT APPLICATION NUMBER: US/09/605,785
NUMBER OF SEQ ID NOS: 835
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 590
LENGTH: 347
TYPE: PRT
ORGANISM: Homo sapiens
US-09-605-785-590

Query Match 20.6%; Score 80.5; DB 4; Length 347;
Best Local Similarity 28.6%; Pred. No. 0.13;
Matches 18; Conservative 10; Mismatches 34; Indels 1; Gaps 1;

OY 1 CEGFVCPGQGSDDIMDGPVCRDRCKEPEFTCASDGLTYNRCYMDAACLRLGLHL 60
DB 42 CDTNCKEFGDECLRLIGD-TVTCVCGFKCNDYVPVCGSNGESYQNECYLRQAACKQOSEI 100

OY 61 HIV 63
DB 101 LVV 103

RESULT 13
US-08-820-170A-25
Sequence 25, Application US/08820170A
Patent No. 5831058
GENERAL INFORMATION:

APPLICANT: Tsutomu, FUJIWARA
APPLICANT: Takeshi, WATANABE
APPLICANT: Masato, HORIE
APPLICANT: Toyomasa, KATAGIRI
TITLE OF INVENTION: HUMAN GENE
NUMBER OF SEQUENCES: 42
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sughrue, Mion, Zimm, Macpeak & Seas
STREET: 2100 Pennsylvania Avenue, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: United States
ZIP: 20037-3202

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/820,170A
FILING DATE:

CLASSIFICATION: 536
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 293-7060
TELEFAX: (202) 293-7860
TELEX: 6491103
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-820-170A-25

Query Match 20.6%; Score 80.5; DB 2; Length 374;
Best Local Similarity 28.6%; Pred. No. 0.14;
Matches 18; Conservative 10; Mismatches 34; Indels 1; Gaps 1;

OY 1 CEGFVCPGQGSDDIMDGPVCRDRCKEPEFTCASDGLTYNRCYMDAACLRLGLHL 60
DB 69 CDTNCKEFGDECLRLIGD-TVTCVCGFKCNDYVPVCGSNGESYQNECYLRQAACKQOSEI 127

OY 61 HIV 63
DB 128 LVV 130

RESULT 14
US-09-055-699-25
Sequence 25, Application US/09055699
Patent No. 6003088
GENERAL INFORMATION:

APPLICANT: Tsutomu, FUJIWARA
APPLICANT: Takeshi, WATANABE
APPLICANT: Masato, HORIE
APPLICANT: Toyomasa, KATAGIRI
TITLE OF INVENTION: HUMAN GENE
NUMBER OF SEQUENCES: 42
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sughrue, Mion, Zimm, Macpeak & Seas
STREET: 2100 Pennsylvania Avenue, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: United States
ZIP: 20037-3202

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/055,699
FILING DATE:

```

; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/820,170
; FILING DATE:
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 293-7060
; TELEFAX: (202) 293-7860
; TELEX: 6491103
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-055-699-25

```

```

Query Match          20.6%; Score 80.5; DB 3; Length 374;
Best Local Similarity 28.6%; Pred. No. 0.14;
Matches 18; Conservative 10; Mismatches 34; Indels 1; Gaps 1;

```

```

QY      1 CEGFYCPQGGSDCDIMGQPCRCRRCERKPEPFTCASDGLTYNRCYMDAECIRGLHL 60
DB      69 CDNTNCKFDEGLRIGD-TYTCVCGQFCNCNDYVPVCGSNGESYQNECTILRQACAKQOSEI 127

```

```

QY      61 HIV 63
DB      128 LVV 130

```

RESULT 15

```

US-09-273-565-25
; Sequence 25, Application US/09273565A
; Patent No. 6166190
; GENERAL INFORMATION:
; APPLICANT: FUJIMURA, TSUTOMU
; APPLICANT: WATANABE, TAKESHI
; APPLICANT: HORIE, MASATO
; TITLE OF INVENTION: AN ISOLATED NUCLEIC ACID MOLECULE ENCODING HUMAN
; FILE REFERENCE: 0-53599
; CURRENT APPLICATION NUMBER: US/09/273,565A
; EARLIER FILING DATE: 1999-03-22
; EARLIER APPLICATION NUMBER: 09/055,699
; EARLIER FILING DATE: 1998-04-07
; EARLIER APPLICATION NUMBER: 08/820,170
; EARLIER FILING DATE: 1997-03-19
; EARLIER APPLICATION NUMBER: JP 63410/1996
; EARLIER FILING DATE: 1996-03-19
; EARLIER APPLICATION NUMBER: JP 69163/1997
; EARLIER FILING DATE: 1997-03-05
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 25
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-273-565-25

```

```

Query Match          20.6%; Score 80.5; DB 4; Length 374;
Best Local Similarity 28.6%; Pred. No. 0.14;
Matches 18; Conservative 10; Mismatches 34; Indels 1; Gaps 1;

```

```

QY      1 CEGFYCPQGGSDCDIMGQPCRCRRCERKPEPFTCASDGLTYNRCYMDAECIRGLHL 60
DB      69 CDNTNCKFDEGLRIGD-TYTCVCGQFCNCNDYVPVCGSNGESYQNECTILRQACAKQOSEI 127

```

```

QY      61 HIV 63
DB      128 LVV 130

```

Search completed: February 20, 2003, 08:22:30
 Job time 5.99527 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 20, 2003, 08:21:07 ; Search time 2.68913 Seconds

(Without alignments)
617.553 Million cell updates/sec

Title: US-09-819-136-2_COPY_93_157

Perfect score: 390
Sequence: 1 CEGFVCPQGGSDCIDWDGPPVCRRCRDRCEKESFTCASDGLTYNRCYMDAECRLGHL 65

Scoring table:

BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 140259 seqs, 25548876 residues

Total number of hits satisfying chosen parameters: 140259

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Published_Applications_AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US08_NEM_PUB pep:*
- 2: /cgn2_6/ptodata/1/pubpaa/PCr_NEM_PUB pep:*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEM_PUB pep:*
- 4: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB pep:*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEM_PUB pep:*
- 6: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB pep:*
- 7: /cgn2_6/ptodata/1/pubpaa/PCrUS_PUBCOMB pep:*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB pep:*
- 9: /cgn2_6/ptodata/1/pubpaa/US09_NEM_PUB pep:*
- 10: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB pep:*
- 11: /cgn2_6/ptodata/1/pubpaa/US10_NEM_PUB pep:*
- 12: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB pep:*
- 13: /cgn2_6/ptodata/1/pubpaa/US60_NEM_PUB pep:*
- 14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	390	100.0	548	10	US-09-819-136-2
2	316	81.0	576	10	US-09-794-589-2
3	113	28.0	315	9	US-09-808-602-65
4	110	28.2	299	9	US-09-808-602-63
5	110	28.2	306	9	US-09-808-602-61
6	110	28.2	308	9	US-09-808-602-64
7	101	25.9	1940	9	US-10-016-283-34
8	97	24.9	815	9	US-09-808-602-4
9	97	24.9	815	9	US-09-966-546-18
10	97	24.9	815	9	US-09-966-545-18
11	97	24.9	815	9	US-09-965-212-18
12	97	24.9	842	9	US-09-966-546-16
13	97	24.9	842	9	US-09-966-545-16
14	97	24.9	842	9	US-09-965-212-16
15	95	24.4	263	9	US-10-101-392-2
16	95	24.4	263	9	US-10-066-500-41
17	95	24.4	263	9	US-10-053-107-4
18	95	24.4	263	9	US-10-028-072-484
19	95	24.4	263	9	US-10-121-049-484

20	95	24.4	263	9	US-10-123-904-484	Sequence 484, App
21	95	24.4	263	9	US-10-140-470-484	Sequence 484, App
22	95	24.4	263	9	US-10-175-746-484	Sequence 484, App
23	95	24.4	263	9	US-10-176-918-484	Sequence 484, App
24	95	24.4	263	9	US-10-176-921-484	Sequence 484, App
25	91	23.3	773	9	US-09-808-602-60	Sequence 60, App
26	91	23.3	850	9	US-09-808-602-58	Sequence 58, App
27	91	23.3	983	9	US-09-808-602-73	Sequence 73, App
28	91	23.3	983	9	US-10-013-136-2	Sequence 2, App
29	87	22.3	317	9	US-10-101-392-3	Sequence 3, App
30	84	21.5	380	9	US-10-201-945-2	Sequence 2, App
31	82.5	21.2	436	9	US-09-978-295A-442	Sequence 442, App
32	82.5	21.2	436	9	US-09-978-132A-442	Sequence 442, App
33	82.5	21.2	436	9	US-09-978-832A-442	Sequence 442, App
34	82.5	21.2	436	9	US-09-978-189-442	Sequence 442, App
35	82.5	21.2	436	9	US-09-978-189-442	Sequence 442, App
36	82.5	21.2	436	9	US-10-028-072-404	Sequence 404, App
37	82.5	21.2	436	9	US-10-121-049-404	Sequence 404, App
38	82.5	21.2	436	9	US-10-123-904-404	Sequence 404, App
39	82.5	21.2	436	9	US-10-140-470-404	Sequence 404, App
40	82.5	21.2	436	9	US-10-175-746-404	Sequence 404, App
41	82.5	21.2	436	9	US-10-176-918-404	Sequence 404, App
42	82.5	21.2	436	9	US-10-176-921-404	Sequence 404, App
43	82.5	21.2	436	10	US-09-745-763-138	Sequence 138, App
44	80.5	20.6	336	9	US-10-012-896-940	Sequence 940, App
45	80.5	20.6	336	9	US-09-895-793-940	Sequence 940, App

ALIGNMENTS

RESULT 1
US-09-819-136-2
; Sequence 2, Application US/09819136
; Patent No. US20020146789A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Geo. Zeren
; TITLE OF INVENTION: MULTI-DOMAIN PROTEINASE INHIBITOR
; FILE REFERENCE: 00-25
; CURRENT APPLICATION NUMBER: US/09/819,136
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 60/193,642
; PRIOR FILING DATE: 2000-03-31
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; TYPE: PRT
; LENGTH: 548
; ORGANISM: Homo sapiens
US-09-819-136-2

Query Match 100.0%; Score 390; DB 10; Length 548;
Best Local Similarity 100.0%; Pred. No. 1.9e-32;
Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CEGFVCPQGGSDCIDWDGPPVCRRCRDRCEKESFTCASDGLTYNRCYMDAECRLGHL 60
DB 93 CEGFVCPQGGSDCIDWDGPPVCRRCRDRCEKESFTCASDGLTYNRCYMDAECRLGHL 152

QY 61 HTVPC 65
DB 153 HTVPC 157

RESULT 2
US-09-794-589-2
; Sequence 2, Application US/09794589
; Patent No. US20020004224A1
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: KUNITZ DOMAIN POLYPEPTIDE ZKUN8
; FILE REFERENCE: 00-01

```
; CURRENT APPLICATION NUMBER: US/09/794,589
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/186,069
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 576
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-794-589-2
```

```
Query Match      81.0%; Score 316; DB 10; Length 576;
Best Local Similarity 78.5%; Pred. No. 6,2e-25;
Matches 51; Conservative 8; Mismatches 6; Indels 0; Gaps 0;
```

```
QY      1 CEGFVCPQOGSDCDIWDGQPVCRRCRCEKPSFTCASDGLTYNRCYMDAECIRGLH 60
DB      111 CHFMCLQOGSDCDIWDGQPVCKCKDCRCEKPSFTCASDGLTYNRCYMDAECIRGLH 170
QY      61 HIVPC 65
DB      171 AVVTC 175
```

```
RESULT 3
US-09-808-602-65
; Sequence 65, Application US/09808602
; Patent No. US20020155115A1
; GENERAL INFORMATION:
; APPLICANT: Vernet, Corline A
; APPLICANT: Fernandes, Elma
; APPLICANT: Shinkets, Richard A
; APPLICANT: Heriman, John L
; APPLICANT: Majumder, Kumud
; APPLICANT: Mishra, Vishnu
; APPLICANT: Mezes, Peter S
; APPLICANT: MacDougall, John
; TITLE OF INVENTION: No. US20020155115A1e1 Proteins and Nuclec Acids Encoding Same
; FILE REFERENCE: 15966-697 CIP
; CURRENT APPLICATION NUMBER: US/09/808,602
; CURRENT FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 09/800,198
; PRIOR FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: 60/186,596
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 65
; LENGTH: 315
; TYPE: PRT
; ORGANISM: Gallus gallus
US-09-808-602-65
```

```
Query Match      29.0%; Score 113; DB 9; Length 315;
Best Local Similarity 31.7%; Pred. No. 0.00013;
Matches 20; Conservative 14; Mismatches 27; Indels 2; Gaps 2;
```

```
QY      1 CEGFVCPQOGSDCDIWDGQPVCRRCRCEKPSFTCASDGLTYNRCYMDAECIRGLH 59
DB      31 CANVFC-GRGAFCAVTEKEGFTCLCEQCKPKHGRPVCGSNGKTYLNCCELHRDACLIGSK 89
QY      60 LHI 62
DB      90 IQV 92
```

```
RESULT 4
US-09-808-602-63
; Sequence 63, Application US/09808602
; Patent No. US20020155115A1
; GENERAL INFORMATION:
; APPLICANT: Vernet, Corline A
```

```
; APPLICANT: Fernandes, Elma
; APPLICANT: Shinkets, Richard A
; APPLICANT: Heriman, John L
; APPLICANT: Majumder, Kumud
; APPLICANT: Mishra, Vishnu
; APPLICANT: Mezes, Peter S
; APPLICANT: MacDougall, John
; TITLE OF INVENTION: No. US20020155115A1e1 Proteins and Nuclec Acids Encoding Same
; FILE REFERENCE: 15966-697 CIP
; CURRENT APPLICATION NUMBER: US/09/808,602
; CURRENT FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 09/800,198
; PRIOR FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: 60/186,596
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 63
; LENGTH: 299
; TYPE: PRT
; ORGANISM: Xenopus laevis
US-09-808-602-63
```

```
Query Match      28.2%; Score 110; DB 9; Length 299;
Best Local Similarity 31.7%; Pred. No. 0.00025;
Matches 20; Conservative 11; Mismatches 30; Indels 2; Gaps 2;
```

```
QY      1 CEGFVCPQOGSDCDIWDGQPVCRRCRCEKPSFTCASDGLTYNRCYMDAECIRGLH 59
DB      28 CANVFC-GAGRECAVTEKEGFTCLCEQCKSHKRPVCGSNGKTYLNCCELHRDACLIGSK 86
QY      60 LHI 62
DB      87 IQV 89
```

```
RESULT 5
US-09-808-602-61
; Sequence 61, Application US/09808602
; Patent No. US20020155115A1
; GENERAL INFORMATION:
; APPLICANT: Vernet, Corline A
; APPLICANT: Fernandes, Elma
; APPLICANT: Shinkets, Richard A
; APPLICANT: Heriman, John L
; APPLICANT: Majumder, Kumud
; APPLICANT: Mishra, Vishnu
; APPLICANT: Mezes, Peter S
; APPLICANT: MacDougall, John
; TITLE OF INVENTION: No. US20020155115A1e1 Proteins and Nuclec Acids Encoding Same
; FILE REFERENCE: 15966-697 CIP
; CURRENT APPLICATION NUMBER: US/09/808,602
; CURRENT FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 09/800,198
; PRIOR FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: 60/186,596
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 61
; LENGTH: 306
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-09-808-602-61
```

```
Query Match      28.2%; Score 110; DB 9; Length 306;
Best Local Similarity 31.7%; Pred. No. 0.00025;
Matches 20; Conservative 12; Mismatches 29; Indels 2; Gaps 2;
```

```
QY      1 CEGFVCPQOGSDCDIWDGQPVCRRCRCEKPSFTCASDGLTYNRCYMDAECIRGLH 59
DB      29 CANVFC-GAGRECAVTEKEGFTCLCEQCKPKHGRPVCGSNGKTYLNCCELHRDACLIGSK 87
```


This Page Blank (uspto)

ALIGNMENTS

RESULT 1
 PCT-US01-09226-47
 ; Sequence 47, Application PC/TUS0109226
 ; GENERAL INFORMATION:
 ; APPLICANT: SMITHKLINE BEECHAM CORPORATION
 ; APPLICANT: SMITHKLINE BEECHAM P.L.C.
 ; TITLE OF INVENTION: NOVEL COMPOUNDS
 ; FILE REFERENCE: GP50018
 ; CURRENT APPLICATION NUMBER: PCT/US01/09226
 ; CURRENT FILING DATE: 2001-03-22
 ; PRIOR APPLICATION NUMBER: 60/192,158
 ; PRIOR FILING DATE: 2000-03-24
 ; PRIOR APPLICATION NUMBER: 60/192,668
 ; PRIOR FILING DATE: 2000-03-27
 ; PRIOR APPLICATION NUMBER: 60/200,166
 ; PRIOR FILING DATE: 2000-04-27
 ; NUMBER OF SEQ ID NOS: 66
 ; SOFTWARE: FASTSEQ for Windows Version 3.0
 ; SEQ ID NO 47
 ; LENGTH: 548
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 PCT-US01-09226-47

Query Match 100.0%; Score 3016; DB 1; Length 548;
 Best Local Similarity 100.0%; Freq. No. 1.8e-200; Indels 0; Gaps 0;
 Matches 548; Conservative 0; Mismatches 0;

QY 1 MPALRPLPLLLLLRLTSGAGLLPGLSGHPVCPNQLSPNLMVDAQSTCERECSDQDCA 60

This Page Blank (uspto)

Db 1 MPAALPPLPLLLRLTSGAGLLPGLSHPGVCPNQLSPNLMVDAOSTCERECSDODCA 60
QY 61 AAEKCCINVCGLHSCVAARFPGSPAAPTAAASCEGFVCPQOOSDCCDINDGQPVRCRDRG 120
Db 61 AAEKCCINVCGLHSCVAARFPGSPAAPTAAASCEGFVCPQOOSDCCDINDGQPVRCRDRG 120
QY 121 EKEPSFTCASDGLTYNNRCYMDAEACLRGLHLHIYPCKHVLSWPPSSGPPETTARPTPG 180
Db 121 EKEPSFTCASDGLTYNNRCYMDAEACLRGLHLHIYPCKHVLSWPPSSGPPETTARPTPG 180
QY 181 AAPVPALYSSPSPOAVOYGSTASLHCDVSGRPPAVTWKOSHORENLMRPDOMYGNV 240
Db 181 AAPVPALYSSPSPOAVOYGSTASLHCDVSGRPPAVTWKOSHORENLMRPDOMYGNV 240
QY 241 VVTSIGOLVLYNAREPDAGLYTCTARNAGLLRADPFLSVQREPARDAASIPAPAECL 300
Db 241 VVTSIGOLVLYNAREPDAGLYTCTARNAGLLRADPFLSVQREPARDAASIPAPAECL 300
QY 301 PDVQACTGPTSPHLVLMHYDPQRGCMTEPPARGCDGAARGFETYEACQOACARGPDACY 360
Db 301 PDVQACTGPTSPHLVLMHYDPQRGCMTEPPARGCDGAARGFETYEACQOACARGPDACY 360
QY 361 LPAVQPCRGMEPRRAYSPILQOCHPFTYGGCGEGNNFHSRESCEDACPVPRTPPCRAC 420
Db 361 LPAVQPCRGMEPRRAYSPILQOCHPFTYGGCGEGNNFHSRESCEDACPVPRTPPCRAC 420
QY 421 RLRSKIALSLCRSDFAIVGRLEVELEPPAAGIARVALEDVLEKDKMGLKFTGYLEY 480
Db 421 RLRSKIALSLCRSDFAIVGRLEVELEPPAAGIARVALEDVLEKDKMGLKFTGYLEY 480
QY 481 TISGMDMACPCPNMTAGDGLVIMGEVRDGVAVLDAGSYVRAASEKRVKILLELEKQAC 540
Db 481 TISGMDMACPCPNMTAGDGLVIMGEVRDGVAVLDAGSYVRAASEKRVKILLELEKQAC 540
QY 541 ELLNRFOD 548
Db 541 ELLNRFOD 548

QY 181 AAPVPALYSSPSPOAVOYGSTASLHCDVSGRPPAVTWKOSHORENLMRPDOMYGNV 240
Db 181 AAPVPALYSSPSPOAVOYGSTASLHCDVSGRPPAVTWKOSHORENLMRPDOMYGNV 240
QY 241 VVTSIGOLVLYNAREPDAGLYTCTARNAGLLRADPFLSVQREPARDAASIPAPAECL 300
Db 241 VVTSIGOLVLYNAREPDAGLYTCTARNAGLLRADPFLSVQREPARDAASIPAPAECL 300
QY 301 PDVQACTGPTSPHLVLMHYDPQRGCMTEPPARGCDGAARGFETYEACQOACARGPDACY 360
Db 301 PDVQACTGPTSPHLVLMHYDPQRGCMTEPPARGCDGAARGFETYEACQOACARGPDACY 360
QY 361 LPAVQPCRGMEPRRAYSPILQOCHPFTYGGCGEGNNFHSRESCEDACPVPRTPPCRAC 420
Db 361 LPAVQPCRGMEPRRAYSPILQOCHPFTYGGCGEGNNFHSRESCEDACPVPRTPPCRAC 420
QY 421 RLRSKIALSLCRSDFAIVGRLEVELEPPAAGIARVALEDVLEKDKMGLKFTGYLEY 480
Db 421 RLRSKIALSLCRSDFAIVGRLEVELEPPAAGIARVALEDVLEKDKMGLKFTGYLEY 480
QY 481 TISGMDMACPCPNMTAGDGLVIMGEVRDGVAVLDAGSYVRAASEKRVKILLELEKQAC 540
Db 481 TISGMDMACPCPNMTAGDGLVIMGEVRDGVAVLDAGSYVRAASEKRVKILLELEKQAC 540
QY 541 ELLNRFOD 548
Db 541 ELLNRFOD 548

RESULT 2
US-09-540-910-2
; Sequence 2, Application US/09540910
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Gao, Zeren
; TITLE OF INVENTION: MULTI-DOMAIN PROTEINASE INHIBITOR
; FILE REFERENCE: 00-25X
; CURRENT APPLICATION NUMBER: US/09/540, 910
; CURRENT FILING DATE: 2000-03-31
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 548
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-540-910-2

Query Match 100.0%; Score 3016; DB 22; Length 548;
Best Local Similarity 100.0%; Pred. No. 1.8e-200;
Matches 548; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MPAALPPLPLLLRLTSGAGLLPGLSHPGVCPNQLSPNLMVDAOSTCERECSDODCA 60
Db 1 MPAALPPLPLLLRLTSGAGLLPGLSHPGVCPNQLSPNLMVDAOSTCERECSDODCA 60
QY 61 AAEKCCINVCGLHSCVAARFPGSPAAPTAAASCEGFVCPQOOSDCCDINDGQPVRCRDRG 120
Db 61 AAEKCCINVCGLHSCVAARFPGSPAAPTAAASCEGFVCPQOOSDCCDINDGQPVRCRDRG 120
QY 121 EKEPSFTCASDGLTYNNRCYMDAEACLRGLHLHIYPCKHVLSWPPSSGPPETTARPTPG 180
Db 121 EKEPSFTCASDGLTYNNRCYMDAEACLRGLHLHIYPCKHVLSWPPSSGPPETTARPTPG 180
QY 181 AAPVPALYSSPSPOAVOYGSTASLHCDVSGRPPAVTWKOSHORENLMRPDOMYGNV 240
Db 181 AAPVPALYSSPSPOAVOYGSTASLHCDVSGRPPAVTWKOSHORENLMRPDOMYGNV 240
QY 241 VVTSIGOLVLYNAREPDAGLYTCTARNAGLLRADPFLSVQREPARDAASIPAPAECL 300
Db 241 VVTSIGOLVLYNAREPDAGLYTCTARNAGLLRADPFLSVQREPARDAASIPAPAECL 300

This Page Blank (uspto)